HERBERT BOILERS

General Catalogue

1913

General Catalogue 1913

Herbert Boiler Company

Manufacturers of

Herbert Patent Steam and Water Boilers
Garbage Burners, Heaters and Tanks
for any purpose and of any capacity

Main Office and Factory

Root and La Salle Streets, Chicago

Telephones { Yards 734
Drover 2496

Revised price lists shown herein take effect January 1st, 1913. Discounts applying to same cancel all previous quotations. Quotations are for immediate acceptance and subject to market changes. All agreements must be approved by Home Office, and are contingent upon strikes, accidents or other causes beyond our control.

Introduction

THE FACT that we have been making boilers since 1879 and have never had occasion to replace a single one on account of failure to fulfil every claim we make for it, assures to us the confidence and continued patronage of all whom we have served for a third of a century.

This same fact ought to engage the attention of every prospective purchaser of heating apparatus. The reasons for our exceptional success are simple. Our ratings are on such a conservative basis that we are warranted in giving an absolute guaranty that our boilers will take care of the amount of radiation as listed, when installed according to our directions.

We use only the best material, employ the best skilled and most efficient workmen and practice the most rigid supervision and inspection.

Our improved types of boilers, which appear from time to time, are never listed in our catalogues or offered for sale until they are thoroughly tested and proven practical. You can, therefore, safely recommend every model, old or new, shown in this catalogue with the full assurance that we hold ourselves responsible direct to the purchaser for its performance as listed.

Our Reasons Why

IT IS SUPERIOR to all others because:

We increase the capacity of the tubular at least twenty-five per cent by the additional surface contained in the firebox.

It is very economical because every inch of its surface is fire surface—the flame passes over the entire shell and back head of boiler before entering flues; then back to the front and over the shell to the chimney.

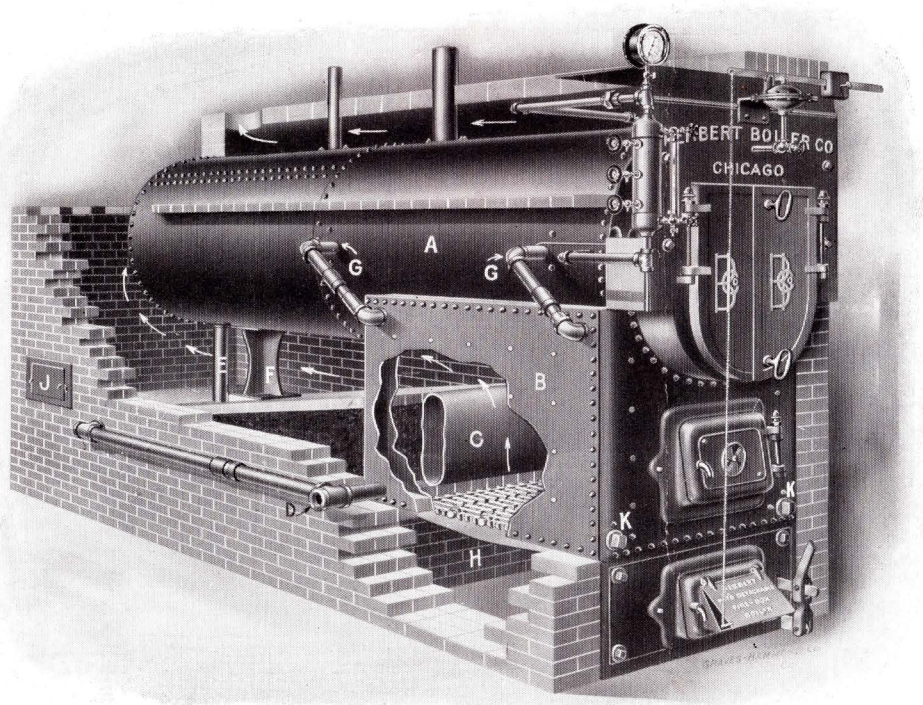
Perfect circulation between back end of boiler and the firebox—which produces quick steaming capacity.

Flues can be cleaned without opening fire doors—no lost heat. All its parts accessible to cleaning.

No fire brick lining to replace; no bridge wall in the firebox—a great saving feature.

A new firebox may be substituted without moving the tubular boiler or destroying the setting.

Shipped in two parts—easily handled and set in place—pass through smaller opening and accomplish greater results in a smaller space.



Detachable Firebox Boiler

(With steel box)

A—Tubular Boiler.

B—Detachable Steel Firebox (see page 16).

C—Steel Water Leg.

D E & G G—Circulating Pipes from Shell to Firebox.

F—Cast Iron Stand.

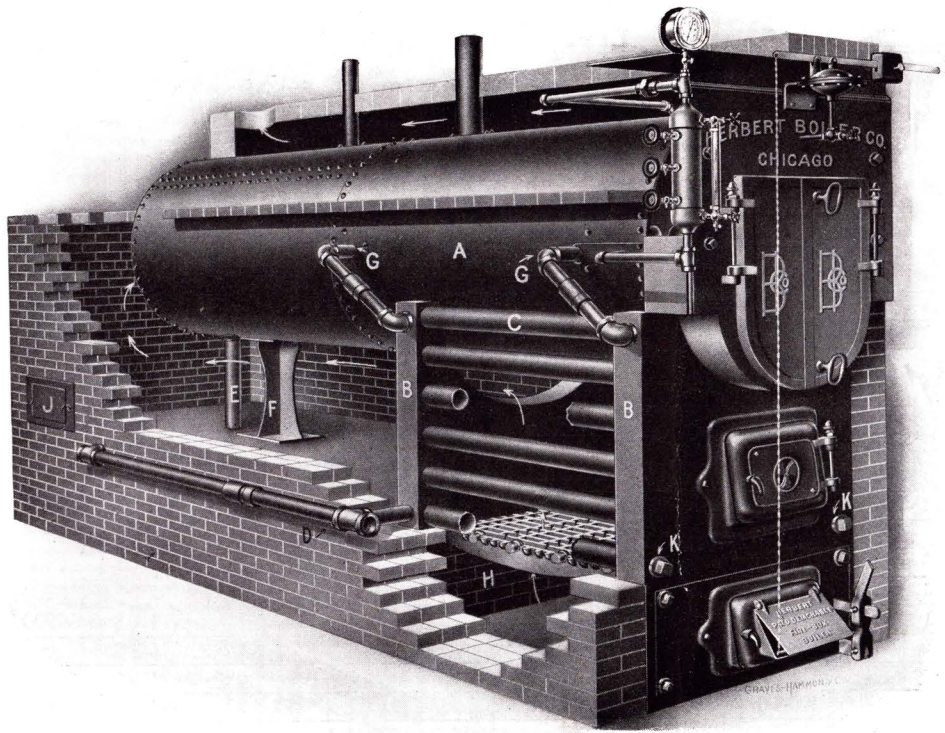
KK—Cleanout Plugs.

Deduct 7 inches from total height if top arch is omitted.

Price List Detachable Firebox Boilers for High and Low Pressure (Steel Box)

Number	Nominal Horse Power	Diameter —inches	Length —feet	Size of Firebox —inches	Size of Flues —inches	Number of Flues	Tapping	**Rating, Steam —sq. ft.**	**Rating, Water —sq. ft.**	Size of Smoke Pipe—inches	**Price, Complete**	Height of Brick Work—inches	Height to Top of Boiler—inches	Height to Water Line—inches	Depth of Ash Pit—inches	Length of Brick Work—feet	Approx. Shipping Wt.—lbs.
1	16	30	8	30x32	3	18	4-2½	1700	2700	14	$ 400.00	77	67	59	13	10′ 2″	3600
2	20	30	10	30x32	3	18	4-2½	2100	3400	16	450.00	77	67	59	13	12′ 2″	4000
3	25	36	10	36x44	3	26	4-3	2900	4600	18	500.00	85	75	67	15	12′ 4″	4600
4	34	36	12	36x44	3½	22	4-3	3300	5300	20	550.00	85	75	67	15	14′ 4″	5200
5	40	36	14	36x50	3½	22	5 4	3800	6000	20	600.00	85	75	67	15	16′10″	6400
6	45	42	12	42x44	3½	30	5-4	4400	7000	22	650.00	91	81	70	15	14′ 6″	6900
7	50	42	14	42x50	3½	30	6 4	4900	7800	22	700.00	91	81	70	15	16′ 6″	7600
8	55	42	16	42x50	3½	30	6-4	5200	8300	22	750.00	91	81	70	15	18′ 6″	8500
9	60	48	14	48x50	3½	38	6-4	5800	9300	24	800.00	97	87	74	15	17′ 0″	9800
10	65	48	16	48x56	3½	38	7-4	6600	10400	24	900.00	97	87	74	15	19′ 0″	10400
11	70	54	14	54x56	3½	52	7 5	8000	12800	28	1000.00	105	95	78	17	17′ 0″	10800
12	80	54	16	54x56	4	42	7-5	8400	13000	28	1100.00	105	95	78	17	19′ 0″	11700
13	90	60	14	60x56	3½	62	7-5	9000	13500	30	1200.00	111	101	83	17	17′ 0″	12800
14	100	60	16	60x56	4	52	7-5	10000	15000	30	1300.00	111	101	83	17	19′ 0″	13600
15	120	66	16	66x62	4	64	7-5	11000	17000	34	1535.00	117	107	87	17	19′ 0″	17900
16	130	66	18	66x62	4	64	7-5	13000	18000	34	1650.00	117	107	87	17	21′ 4″	18600
17	140	72	16	72x62	4	70	7-5	14000	19600	40	1925.00	124	113	92	17	19′ 2″	22000
18	165	72	18	72x62	4	70	7-5	15600	21000	40	2025.00	124	113	92	17	21′ 4″	23500

The above prices include Ornamental Front and full set of castings, and the following trimmings: One Steam Gauge, one Water Column with three Gauge Cocks and Water Gauge, one Pop Safety Valve, one Automatic Draft Regulator with Lever and Weights. One Iron Hoe and Poker furnished free of charge with each boiler.



Detachable Firebox Boiler "B Series"

(Water tube box)

A—Tubular Boiler.

BB—Cast Steel Water Legs.

C—X "Heavy" Water Tubes.

D E & G G—Circulating Pipes.

KK—Cleanout Plugs; will also be placed opposite each Tube "C" if desired.

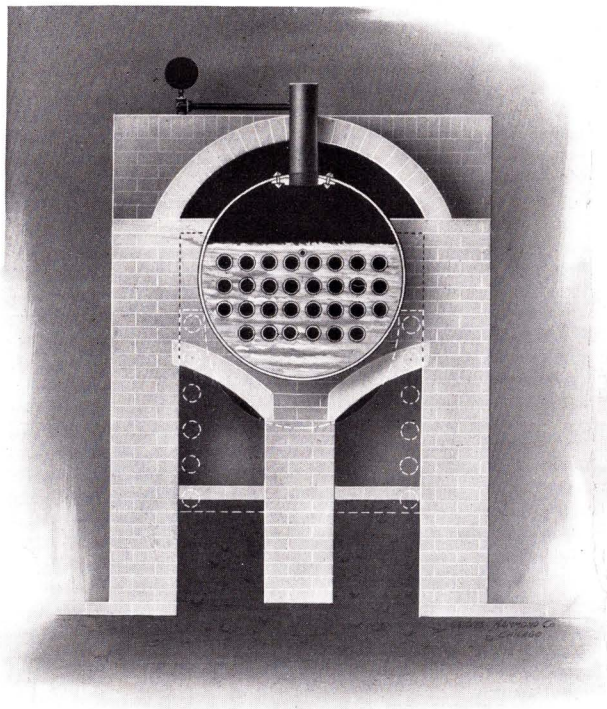
Deduct 7 inches from total height if top arch is omitted

Price List Detachable Firebox Boiler—"B" Series

Number	Diameter —inches	Length —feet	Size of Firebox —inches	Size of Flues —inches	Number of Flues	Tapping	**Rating, Steam —sq. ft.**	**Rating, Water —sq. ft.**	Size of Smoke Pipe—inches	Shipping Weight—lbs.	**Price, Complete**	Height to Water Line—inches	Height to Top of Boiler—inches	Height of Brick Work—inches	Width of Brick Work—inches	Length of Brick Work—feet	Depth of Ashpit —inches
C 1	24	4	24x26	2½	17	4–4	500	800	14	1700	$ 265.00	52	57	67	48	5′ 8″	13
C 2	24	5	24x26	2½	17	4–4	800	1200	14	1900	285.00	52	57	67	48	6′ 8″	13
C 3	24	6	24x32	2½	17	4–4	1000	1600	14	2100	318.00	52	57	67	48	7′ 8″	13
C 4	24	8	24x38	2½	17	4–4	1200	1900	14	2500	339.00	52	57	67	48	9′ 8″	13
B 0	30	6	30x32	3	20	4–2½	1400	2200	18	3400	394.00	55	63	73	54	8′ 0″	13
B 1	30	8	30x38	3	20	4–2½	1700	2700	18	3700	419.00	55	63	73	54	10′ 0″	13
B 2	30	10	30x44	3	20	4–2½	2100	3400	18	4000	454.00	55	63	73	54	12′ 0″	13
B 2½	30	12	30x44	3	20	4–3	2500	4000	18	4300	533.00	55	63	73	54	14′ 0″	13
B 3	36	10	36x44	3	26	5–3	2900	4600	20	4650	583.00	63	71	81	66	12′ 10″	15
B 4	36	12	36x44	3½	22	6–3	3300	5300	20	5000	653.00	63	71	81	66	14′ 10″	15
B 5	36	14	36x50	3½	22	6–4	3800	6100	20	5900	703.00	63	71	81	66	16′ 10″	15
B 6	42	12	42x44	3½	30	6–4	4400	7000	22	6500	763.00	66	77	87	72	14′ 10″	15
B 7	42	14	42x50	3½	30	7–4	4900	7800	22	7300	888.00	66	77	87	72	16′ 10″	15
B 8	48	12	48x50	3½	38	7–4	5200	8300	24	8000	925.00	70	83	93	78	15′ 0″	15
B 9	48	14	48x56	3½	38	7–4	5800	9300	24	9300	963.00	70	83	93	78	17′ 0″	15
B10	48	16	48x62	3½	38	7–4	6600	10500	24	9900	1025.00	70	83	93	78	19′ 0″	15
B11	54	12	54x56	3½	52	7–4	6800	10900	28	10000	1075.00	74	91	101	92	15′ 0″	17
B12	54	14	54x62	3½	52	7–4	8000	12800	28	10800	1200.00	74	91	101	92	17′ 0″	17

Special sizes not listed built to order.

The above prices include Ornamental Front and full set of castings, and the following trimmings: One Steam Gauge, one Water Column with three Gauge Cocks and Water Gauge, one Pop Safety Valve, one Automatic Draft Regulator with Lever and Weights, with each Steam Boiler. One Iron Hoe and Poker furnished with each boiler.

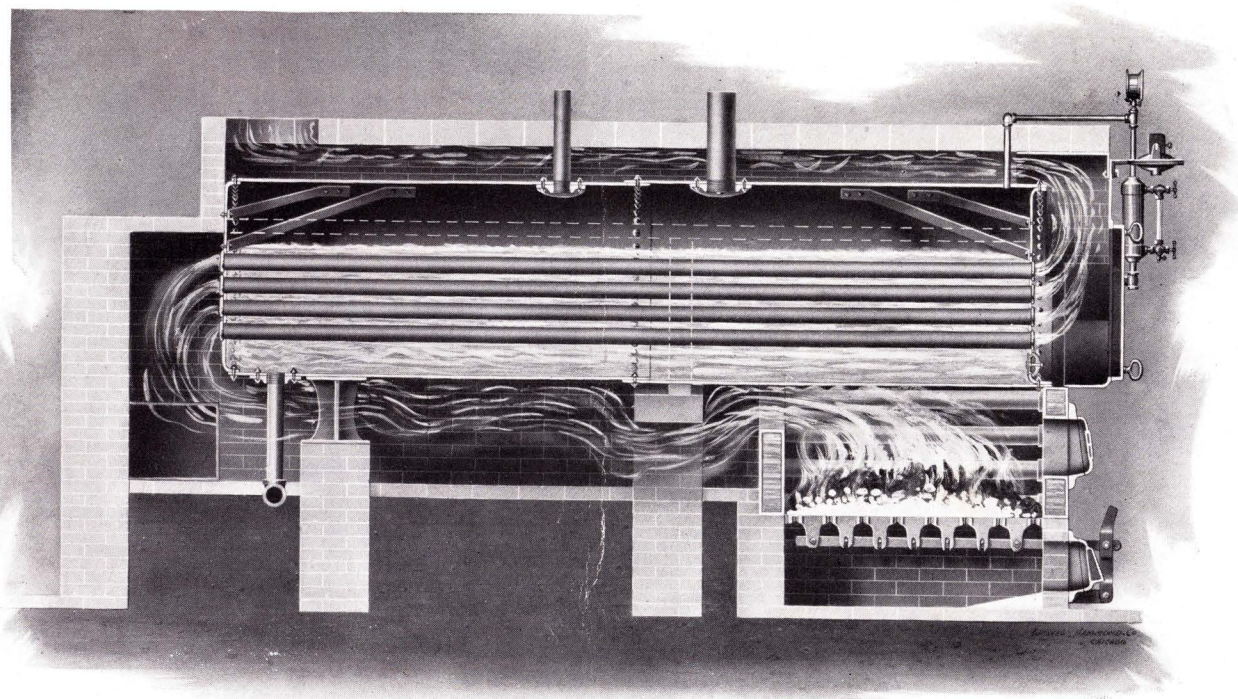


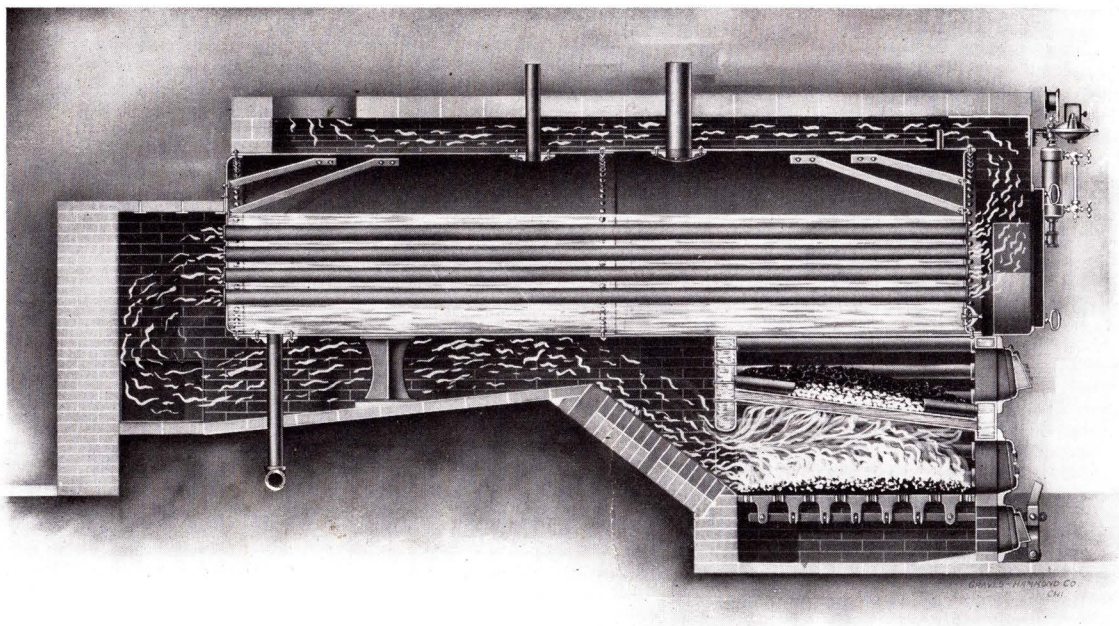
End View from Rear

OF the several types of smoke consuming arches which can be used successfully in the setting of Herbert Detachable Firebox Boilers we show on this and following page two views of the double deflection arch which we recommend; it is inexpensive and highly efficient. By the addition of the arches the Detachable Firebox Boiler will comply with any smoke ordinance.

If you wish to burn smoke within the smallest possible percentage, however, we recommend that you select the boilers designed for smoke prevention, listed on pages 15 and 23.

Side Sectional View Applied to "B Series"

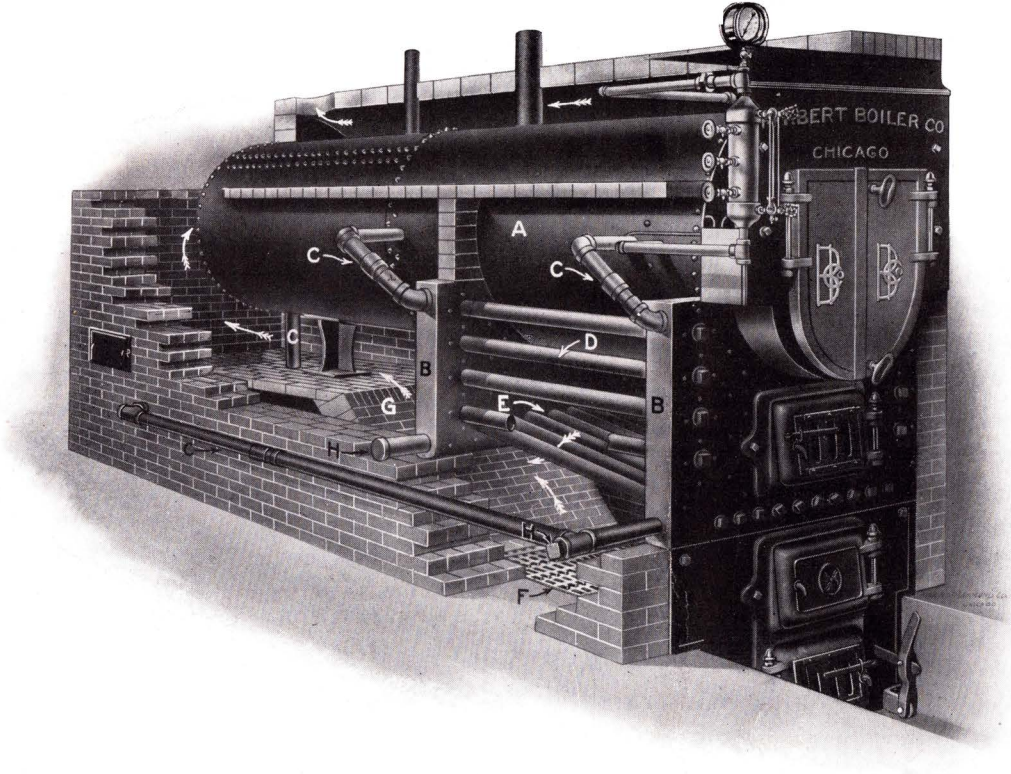




Side Sectional View—Showing Smoke Consuming Process and Fire Travel

Herbert Down-draft Detach-able Fire Box Boiler

A wonderful economizer worthy your specification.



Side Brick Wall Partially Removed Showing Furnace Attachment

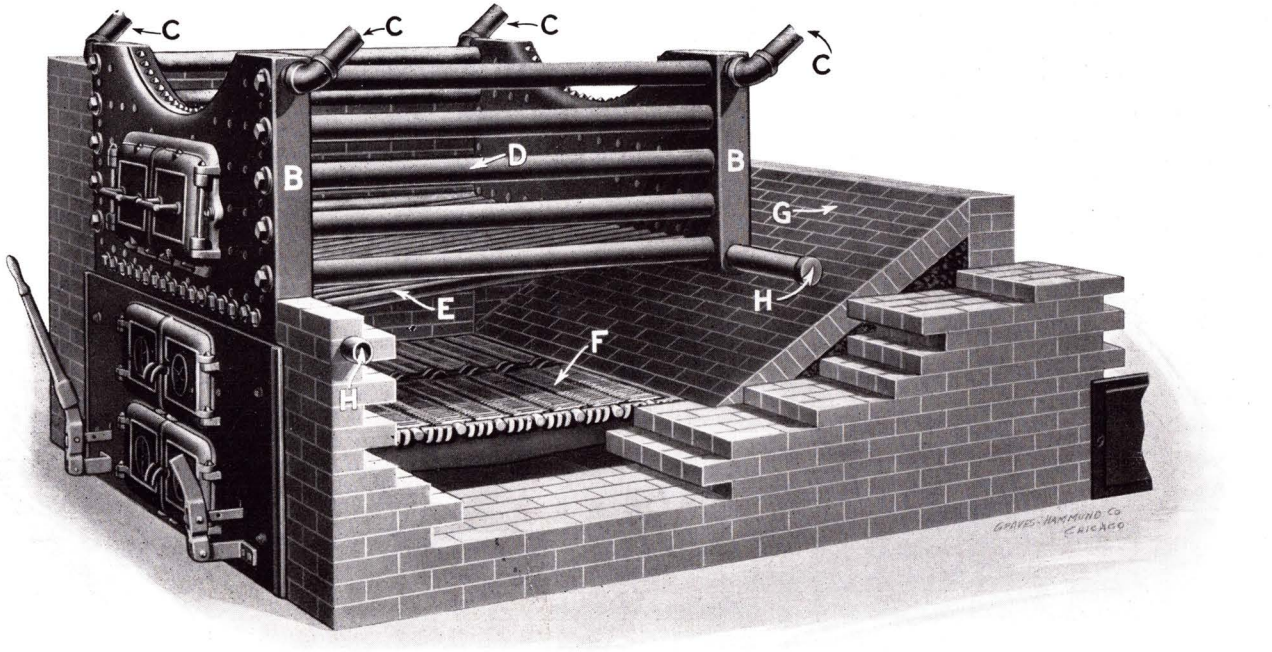
Downdraft Detachable Firebox Boiler

A—Tubular Boiler.
B—Water Legs.
C—Circulating Pipes.
D—Side Tubes Connecting Water Legs.
E—Water Tube Grate.
F—Lower Shaking Grate.
G—Firebrick Bridge Wall.
H—Cleanout Plugs.

Price List Down-draft Detachable Firebox Boiler

Number	Diameter—inches	Length—feet	Height to Top of Boiler—inches	Size of Firebox—inches	Size of Flues—inches	Number of Flues	Tapping	**Rating, Steam—sq. ft.**	**Rating, Water—sq. ft.**	Size of Smoke Pipe—inches	Height to Water Line—inches	Total Width of Brick Work	Total Length of Brick Work	Shipping Weight—lbs.	**Price Complete**
D 5	30	6	74	30x34	3	20	4–2½	1400	2200	18	66	4′ 6″	8′ 3″	4000	$ 394.00
D 6	30	8	74	30x40	3	20	4–2½	1700	2700	18	66	4′ 6″	10′ 3″	4300	419.00
D 7	30	10	74	30x40	3	20	4–2½	2100	3400	18	66	4′ 6″	12′ 3″	4600	454.00
D 8	30	12	74	30x46	3	20	4–3	2500	4000	18	66	4′ 6″	14′ 3″	4900	533.00
D 9	36	10	80	36x46	3	26	6–3	2900	4600	20	72	5′ 8″	12′ 10″	5450	583.00
D10	36	12	80	36x46	3½	22	6–3	3300	5300	20	72	5′ 8″	14′ 10″	5800	653.00
D11	36	14	80	36x50	3½	22	6–4	3800	6100	20	72	5′ 8″	16′ 10″	6700	703.00
D12	42	12	86	42x50	3½	30	6–4	4400	7000	22	75	6′ 2″	14′ 10″	7200	763.00
D13	42	14	86	42x56	3½	30	6–4	4900	7800	22	75	6′ 2″	16′ 10″	7900	888.00
D14	48	12	97	48x50	3½	38	6–4	5200	8300	22	84	6′ 8″	14′ 10″	8500	925.00
D15	48	14	97	48x56	3½	38	6–4	5800	9300	22	84	6′ 8″	16′ 10″	9500	1025.00
D16	48	16	97	48x56	3½	38	7–4	6600	10500	24	84	6′ 8″	19′ 0″	10500	1125.00
D17	54	12	105	54x56	3½	52	7–4	6800	10900	24	89	7′ 10″	15′ 4″	10800	1175.00
D18	54	14	105	54x56	3½	52	7–4	8000	12800	24	89	7′ 10″	17′ 4″	11800	1300.00
D19	54	16	105	54x62	4	42	7–4	9000	14400	24	89	7′ 10″	19′ 4″	12800	1400.00
D20	54	18	105	54x62	4	42	7–4	10000	16000	24	89	7′ 10″	21′ 4″	13800	1500.00
D21	60	14	111	60x56	3½	62	7–4	10000	16000	30	93	8′ 4″	17′ 10″	14000	1500.00
D22	60	16	111	60x62	4	52	7–4	11000	17600	30	93	8′ 4″	19′ 10″	15000	1600.00
D23	60	18	111	60x62	4	52	7–4	12000	19200	30	93	8′ 4″	21′ 4″	16000	1700.00
D24	66	16	117	66x62	4	64	7–5	12500	20000	34	97	9′ 6″	20′ 2″	17000	1750.00
D25	66	18	117	66x62	4	64	7–5	13500	21600	34	97	9′ 6″	21′ 6″	18500	1850.00
D26	72	16	123	72x62	4	70	7–5	14500	23200	40	102	10′ 0″	20′ 6″	21000	2100.00
D27	72	18	123	72x62	4	70	7–5	16000	25600	40	102	10′ 0″	21′ 6″	23600	2300.00

Larger sizes furnished on application



View of Downdraft Detachable Firebox—Showing lower cast-iron front; shaking grates and bridge wall—this with the illustration on page 12 clearly represents the modern fuel-saving smoke burner.

Herbert Down-draft Detachable Firebox Boiler

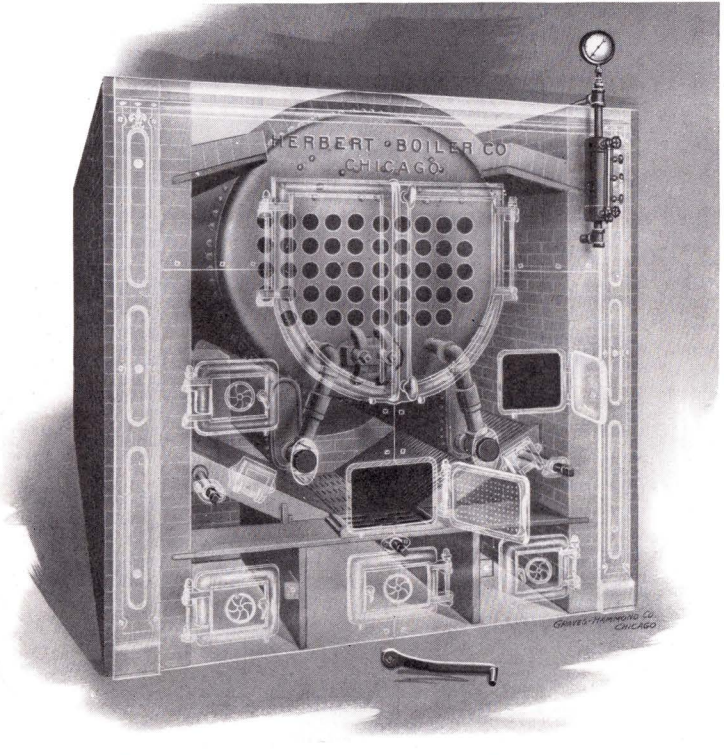
WE SHOW THIS FIREBOX just as you receive it, ready to attach to your new or old boiler. You do not require any skilled labor to install it; any steamfitter who can make the connections is all that is necessary. It is impossible to make a mistake, as the different sizes are made to fit the outside diameter of all standard boilers from 30″ in diameter to 72″ and larger. The lower front gives the proper height; the smoke box or upper front finishes the setting after the connections are made.

The boiler and firebox are connected in our factory and all connections are plainly marked with center punch to show where they belong. After the boiler is blocked up to proper height the five connections between the firebox and the boiler can be made in two or three hours.

We invite a thorough investigation of its merits and feel positive that you will be convinced that it is greatly in advance of all other down-draft furnaces as regards economy, efficiency and durability.

Herbert Smokeless Boiler

THE PREVENTION OF SMOKE is a simple and natural process as developed in this boiler. The coking magazine on each side marked *M* (see page 21) is charged with fuel—fire is built on center grate. During the process of coking the gases are drawn back and downward by natural draft over bridge wall into smoke chamber, *R*, following course of arrows into central ash pit, *P*, and pass up through the intense heat of the clear incandescent fire on central grate through which the whole air supply to stack is drawn. The smoke and gases are there consumed, increasing the heat and efficiency of the boiler. As occasion may require the central grate is replenished with live coals from the bottom of the magazine, on either side, by the movement of the oscillating grate, which forces the coked fuel to the center fire. The side grates are pitched to the center; a single rib in every four raising and lowering the entire magazine fuel bed to allow proper air circulation, preventing shell-caking and keeping the fire clear and free of ash. The proper amount of coked coals are thus fed to the center fire. This grate is shown on page 20. The pit under grates is divided into three compartments, all of which are provided with doors, those under magazine to be used for controlling the draft, while those under the central grate are only opened for purpose of cleaning out the ash pit and at rare intervals for checking the fire. Our smokeless attachments, or water legs, for tubular boilers are made of the best firebox steel plate of extra thickness, are thoroughly riveted and stay bolted. Provision is made for blowing them off, so that with ordinary care they will outlast boiler to which they are attached. This attachment can be placed under an ordinary tubular boiler,

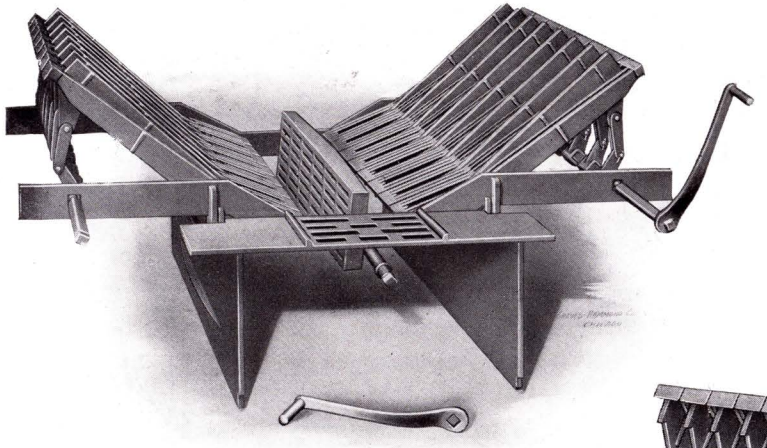


Herbert Smokeless Boiler — X-Ray View

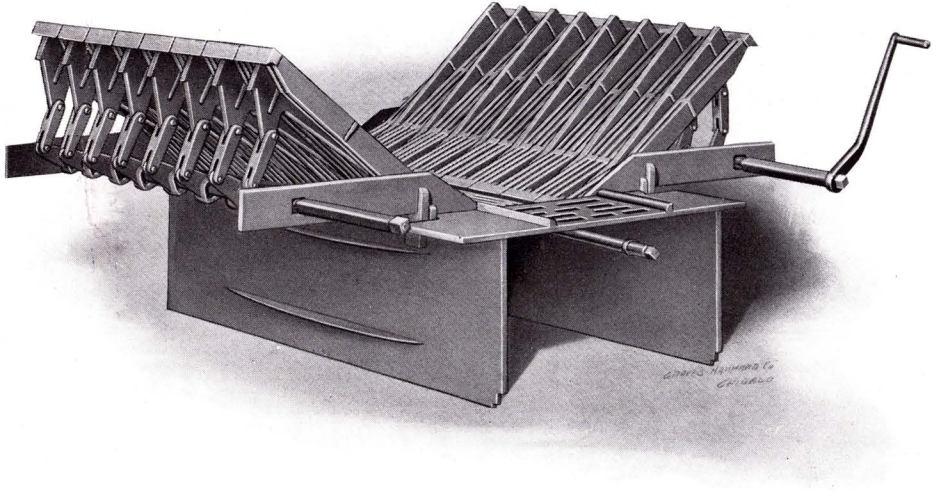
Herbert Smokeless Boiler

(Continued)

in addition to its smoke consuming feature it will be seen from the position which the attachment occupies under the boiler that it adds greatly to the steam generating capacity of the boiler. We guarantee an increase of from twelve to fifteen horsepower in actual boiler surface. Our process of consuming the smoke is to coke the coal in both magazines and carry the smoke and gases through the intense heat of the fire on center grate without any additional mechanical devices. The only repairs necessary will be center grates, which can be destroyed through carelessness or neglect in cleaning the center ash pit of ashes. We guarantee our smokeless boiler to comply with the most rigid smoke ordinance, to burn the cheapest grades of soft coal, save from fifteen to twenty-five per cent over the common setting, and to cost less for repairs than any other boiler made.



Two Views of the New Style Herbert Patent Grate Used in Connection with the Magazine-feed Smokeless Boiler



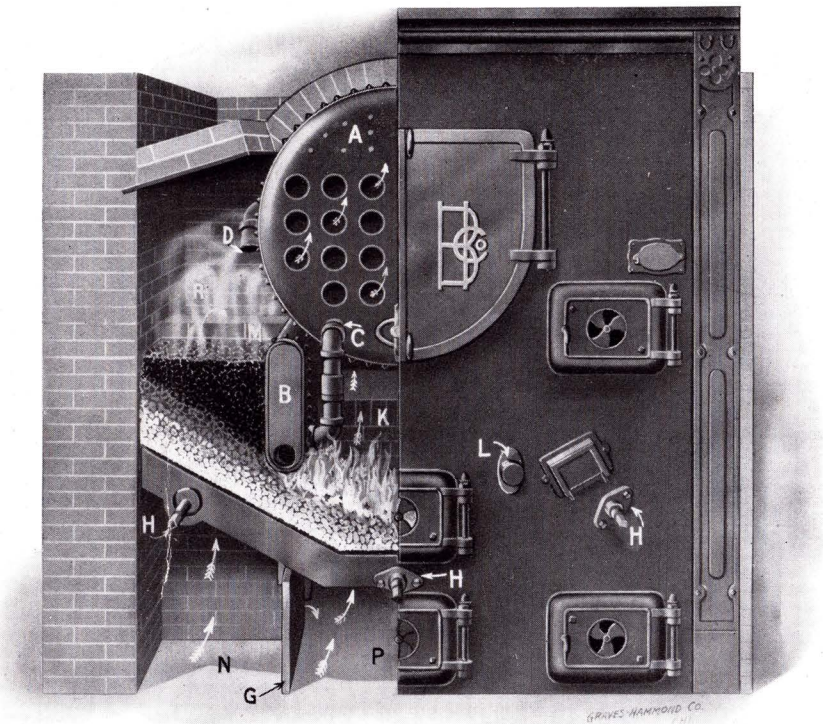
The side grates are cast in sections 6 inches wide; four ribs are stationary and the fifth or middle rib is raised or lowered by the shaker arm extending through front of boiler. Sufficient action is secured to release the coking coals from beneath the water legs (marked B—page 21), for complete combustion on center grate.

Herbert Smokeless Boiler

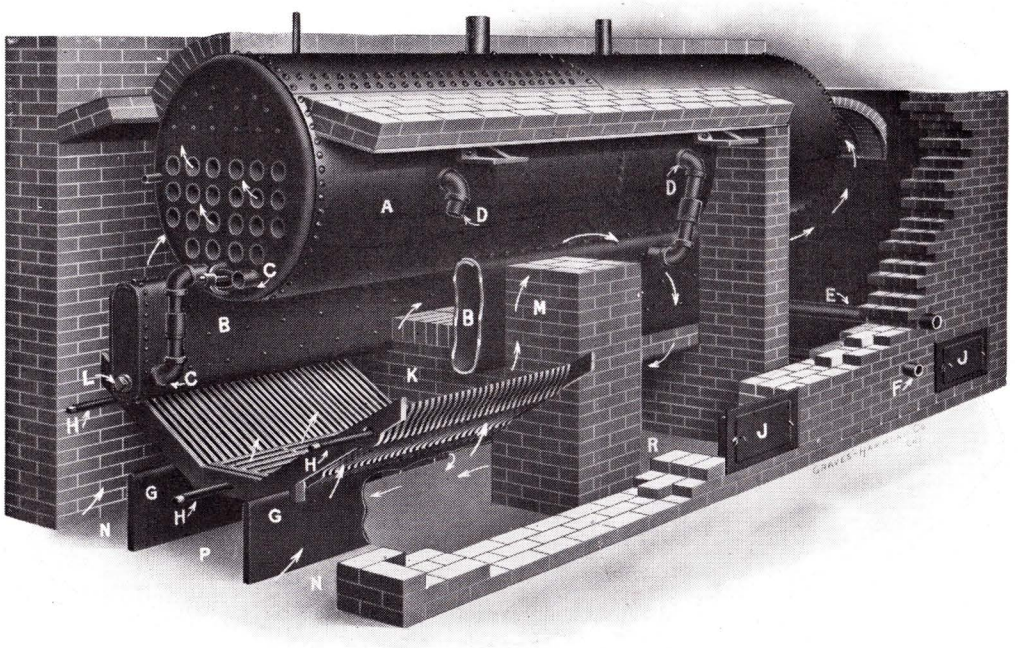
(Magazine Feed)

YOU will observe the deep bed of coal in the magazines; this enables the fireman to carry steam for an extended period without attention. The fire can be so regulated, and by natural air supply, that the magazine chambers need not be diminished of fuel to any appreciable extent during the time that a slow fire is required. When a large amount of steam is demanded quickly the requisite amount of coking coals can be fed to the center grate, drafts opened and pressure rapidly increased.

We recommend that magazines be kept filled—the more coal placed in the magazines the more economical the operation will be. Green coal should never be fired through center door; all supply for center fire should be from the magazine chambers. Water legs should be cleaned frequently of any sediment which accumulates through washout plugs designated "L" in illustration.



Front View — Half of Cast Iron Front Removed, Showing Coking Chamber



Back Masonry Partially Removed — Arrows Show Course of Draft and Smoke Travel

Herbert Smokeless Boiler

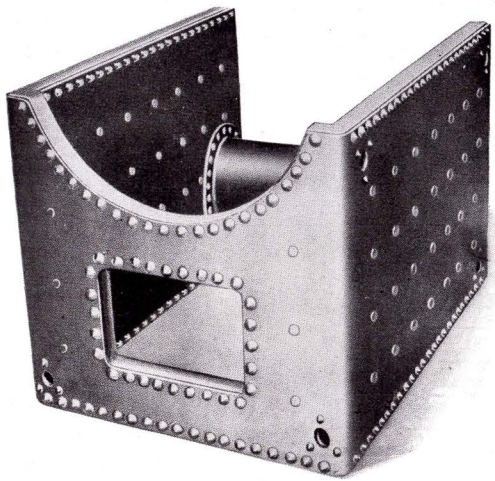
A—Tubular Boiler.
B—Steel Water Legs.
C & D—Circulating Pipe Connections.
E & F—Blowoff from Water Legs.
G—Ashpit Casting supporting the Grate Frames.
H—Shaker Spindles.
K—Center Bridge Wall.
L—Cleanout Plugs to Water Legs.
M—Coking Magazine.
N—Side Ashpits.
P—Center Ashpit.
R—Magazine Smoke Chamber.

Price List Magazine Feed Smokeless Boiler

Number	Diameter of Boiler —inches	Length —feet	Size Flues —inches	Number of Flues	Tapping for Low Pressure	**Radiation Sq. Ft. Steam**	Nominal Horse Power	Size of Smoke Pipe—inches	Approximate Shipping Wt. —Pounds	**Price f. o. b. Chicago**	Height to top of Boiler —inches	Water Line —inches	Height Brick Work—inches	Width Brick Work—feet	Length Brick Work—feet
1	36	10	3″	26	4-3	3000	30	20	6700	$ 700 00	82	74	86	7′ 0″	13′ 11″
2	42	12	3½″	30	5-4	3500	45	22	7300	800.00	86	75	90	7′ 0″	16′ 4″
3	48	12	3½″	38	6-4	4000	57	22	9000	900.00	95	85	99	9′ 0″	16′ 4″
4	48	14	3½″	38	6-4	5000	60	22	10200	1000.00	95	85	99	9′ 0″	18′ 4″
5	54	12	4″	38	7-5	6000	63	24	12000	1100 00	102	85	106	9′ 4″	16′ 7″
6	54	14	4″	38	7-5	7000	72	24	13000	1200.00	102	85	106	9′ 4″	18′ 7″
7	60	14	4″	46	7-5	8000	87	30	14000	1300.00	109	91	113	10′ 2″	19′ 4″
8	60	16	4″	46	7-5	10000	95	30	15000	1400 00	109	91	113	10′ 2″	21′ 4″
9	60	18	4″	46	7-5	11500	105	30	18000	1500.00	109	91	113	10′ 2″	23′ 4″
10	66	16	4″	54	7-5	12000	115	34	18800	1650.00	115	91	120	10′ 4″	21′ 8″
11	66	18	4″	54	7-5	13000	125	34	21000	1800.00	115	91	120	10′ 4″	23′ 8″
12	72	16	4″	70	7-5	14000	135	40	23000	1900.00	124	95	129	10′ 6″	22′ 2″
13	72	18	4″	70	7-5	16000	155	40	25000	2100.00	124	95	129	10′ 6″	24′ 2″

The above weights are for Low Pressure Boilers—Tappings shown for low pressure and we therefore advise that you specify size steam and return openings when ordering. Dimensions for brick setting are based on full size walls; number of brick will be given upon request.

The Detachable Fire Box for tubular Boilers (High or Low Pressure)



List of Sizes

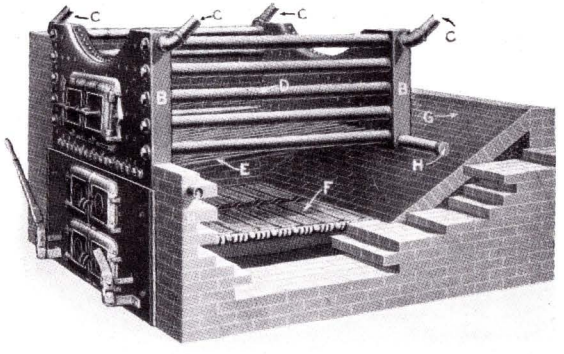
State pressure to be carried when ordering

Nos.	1 and	2—	For 30	inch	diameter	boiler	.....	$300.00
"	3 and	4—	" 36	"	"	"	.....	350.00
"	5	—	" 36	"	"	"	.....	400.00
"	6	—	" 42	"	"	"	.....	400.00
"	7 and	8—	" 42	"	"	"	.....	450.00
"	9 and	10—	" 48	"	"	"	.....	500.00
"	11 and	12—	" 54	"	"	"	.....	550.00
"	13 and	14—	" 60	"	"	"	.....	600.00
"	15	—	" 66	"	"	"	.....	650.00
"	16	—	" 72	"	"	"	.....	700.00

This price includes fronts, fire doors ash pit, damper regulator, rocking grates, lever and weight, poker and hoe, blue print of setting.

THIS cut shows the Herbert Detached Firebox, which is made in size to fit any horizontal tubular boiler from 30 inches to 72 inches in diameter. It is guaranteed to increase the capacity of boiler to which it is attached from 15 to 25 per cent. This firebox is made for high and low pressure and when attached to a new or old boiler looks exactly like cut on page 6. The fire door is large; flue caps neat and convenient; the ash pit is deep and easily cleaned, and in every respect is in a class by itself for economy, compactness and durability. If the "B Series" Firebox is preferred, we can furnish, either for low or high pressure, and will submit prices any size on request.

Herbert Down-draft Detachable Fire Box for Tubular Boilers (High or Low Pressure



List of Sizes

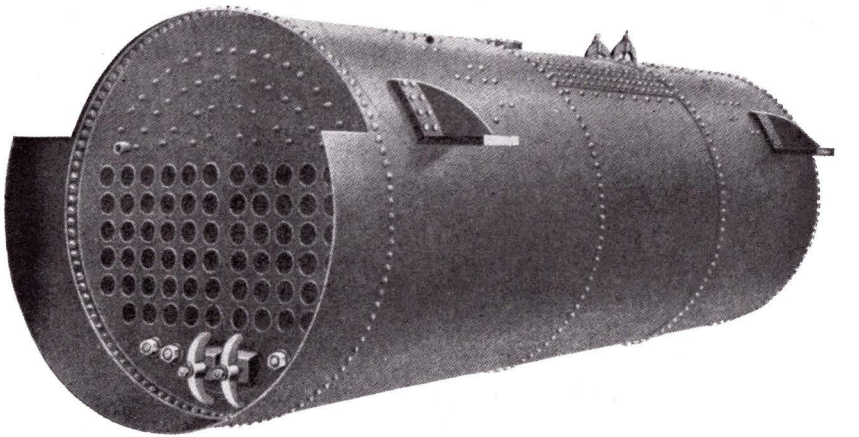
State pressure to be carried and size of boiler when ordering

For 30 inch diameter boiler	$300.00
" 36 " " "	400.00
" 42 " " "	450.00
" 48 " " "	500.00
" 54 " " "	550.00
" 60 " " "	600.00
" 66 " " "	650.00
" 72 " " "	700.00

This price includes fronts, fire doors, ash pit, rocking grates, damper, four side circulating connections, blue print of setting.

Owing to numerous inquiries we have received from heating contractors and engineers for prices of the Downdraft Firebox for attachment to old boilers we have decided to list the same. By the addition of this furnace any horizontal tubular boiler will have an increased capacity and made to comply with the most rigid smoke ordinance existing. With the blueprints and instructions we furnish it is a very simple matter to attach this furnace to a tubular boiler; it is only necessary to tap four holes in boiler for the requisite circulating connections.

Standard Return Horizontal Tubular Boiler



ALL rivet holes are reamed and every rivet is driven by machinery under high pressure.

The caulking is done by pneumatic machinery with a round nose tool. The tube holes are reamed and chamfered with a rose reamer, the burrs removed, the tubes set into the heads with a roller expander and the ends carefully beaded over against the head.

TEST — After the boiler is completed and placed upon the test block, it is subjected to a steady water pressure of 50 per cent above its proposed working pressure, and a further test is then made under steam at working pressure. During the test careful search is made with a torch and the boiler is made tight at every seam and rivet.

We will, upon request, supply a certificate of inspection, setting forth the observed pressure used in each case, identifying the boiler by its inspection number, and upon application the purchaser can have a policy of insurance for one year, issued by a responsible steam boiler insurance company, whose inspector tests the boilers. This policy is payable to the purchaser and is valid and in force wherever the boiler may be located.

Standard Return Horizontal Tubular Boilers (Revised Specifications)

100 POUNDS WORKING PRESSURE

Horse Power	Shell		Thickness		Size of Dome	Tubes		Diameter Stack—inches	Weight of Boiler
	Diameter—inches	Length—feet	Shell	Heads		Number	Diameter—inches		
8	30	8	1/4	3/8	16x20	19	2 1/2	12	1575
10	30	10	1/4	3/8	16x20	19	2 1/2	12	1850
14	36	8	1/4	3/8	18x20	24	3	16	2500
18	36	10	1/4	3/8	18x20	24	3	16	2900
25	36	12	1/4	3/8	18x20	24	3	16	3350
30	42	10	1/4	3/8	20x24	34	3	18	3650
33	42	12	1/4	3/8	20x24	34	3	18	4300
40	42	14	1/4	3/8	20x24	32	3 1/2	18	4950
45	48	12	5/16	7/16	24x24	46	3	24	5500
50	48	14	5/16	7/16	24x24	32	3 1/2	24	5900
60	54	14	5/16	7/16	27x30	44	3 1/2	26	7700
70	54	16	5/16	7/16	27x30	36	4	26	8900
75	60	14	5/16	1/2	30x30	54	3 1/2	28	9650
80	60	16	5/16	1/2	30x30	44	4	28	10750
90	60	18	3/8	1/2	32x32	44	4	28	11700
100	66	16	3/8	1/2	32x32	54	4	32	13200
110	66	18	3/8	1/2	32x32	54	4	32	14000
125	72	16	7/16	1/2	36x36	70	4	36	16400
145	72	18	7/16	1/2	36x36	70	4	36	18000

125 POUNDS WORKING PRESSURE

Horse Power	Shell		Thickness		Tubes		Diameter Stack—inches	Weight of Boiler
	Diameter—inches	Length—feet	Shell	Heads	Number	Diameter—inches		
45	48	12	5/16	7/16	46	3	24	5900
50	48	14	5/16	7/16	32	3 1/2	24	6400
60	54	14	3/8	7/16	44	3 1/2	26	8125
70	54	16	3/8	1/2	36	4	26	8900
75	60	14	3/8	1/2	54	3 1/2	28	10000
80	60	16	3/8	1/2	44	4	28	11500
90	60	18	3/8	1/2	44	4	28	12650
100	66	16	7/16	1/2	54	4	32	13500
115	66	18	7/16	1/2	54	4	32	15100
125	72	16	7/16	1/2	70	4	36	16600
150	72	18	7/16	1/2	70	4	36	18200

Furnished With or Without Dome

Herbert Baseburning Magazine and Drop Tube Boilers

SECTIONAL cuts showing boilers partially enclosed in masonry will be found on pages 29 to 33. These boilers have been on the market since 1884, and are in use in all the states and territories. They possess the following exclusive advantages:

Entirely constructed of the best brands of steel (no cast iron sections to crack).

They are free from tubular flues and self-cleaning (no places where soot may lodge).

Their entire surface is shell surface.

Burn any kind of fuel economically.

Have no direct or indirect drafts—the fire must pass over every inch of the shell, inside and out, before reaching chimney, as there is no other outlet.

In the magazine boiler, the magazine being entirely submerged in water makes it both a powerful generator of steam and a preventative of fuel igniting and producing gas, which is more or less objectionable in other magazine boilers. The fire door is so arranged that firing can be done through same in Spring or Fall of the year when a small fire is required, without the necessity of filling the magazine.

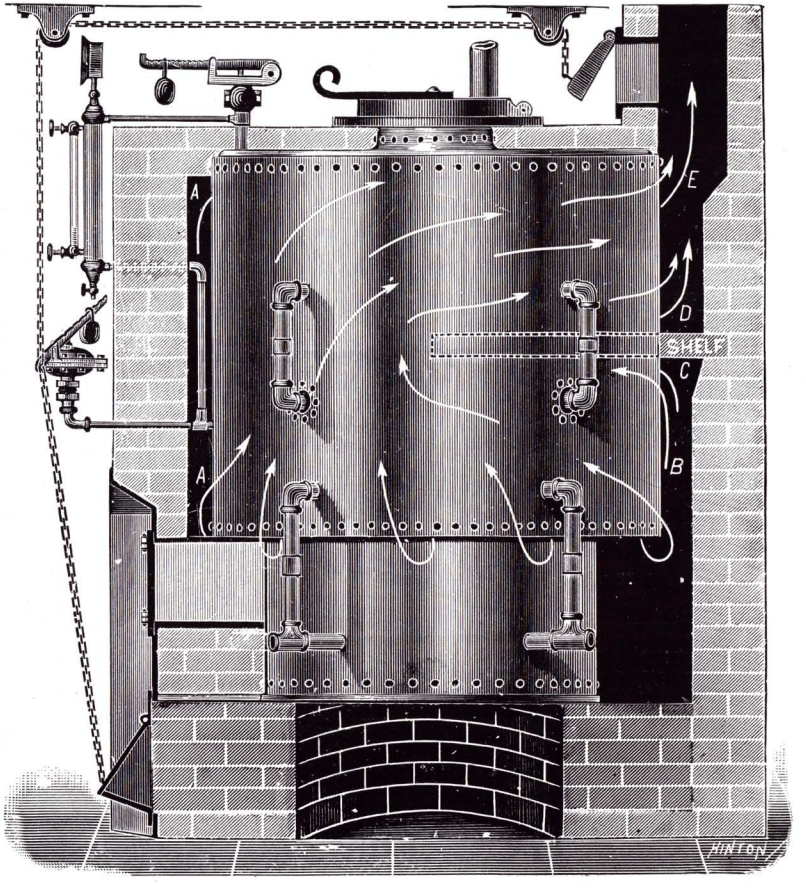
These boilers never see the scrap pile; they outlast the buildings in which they are installed.

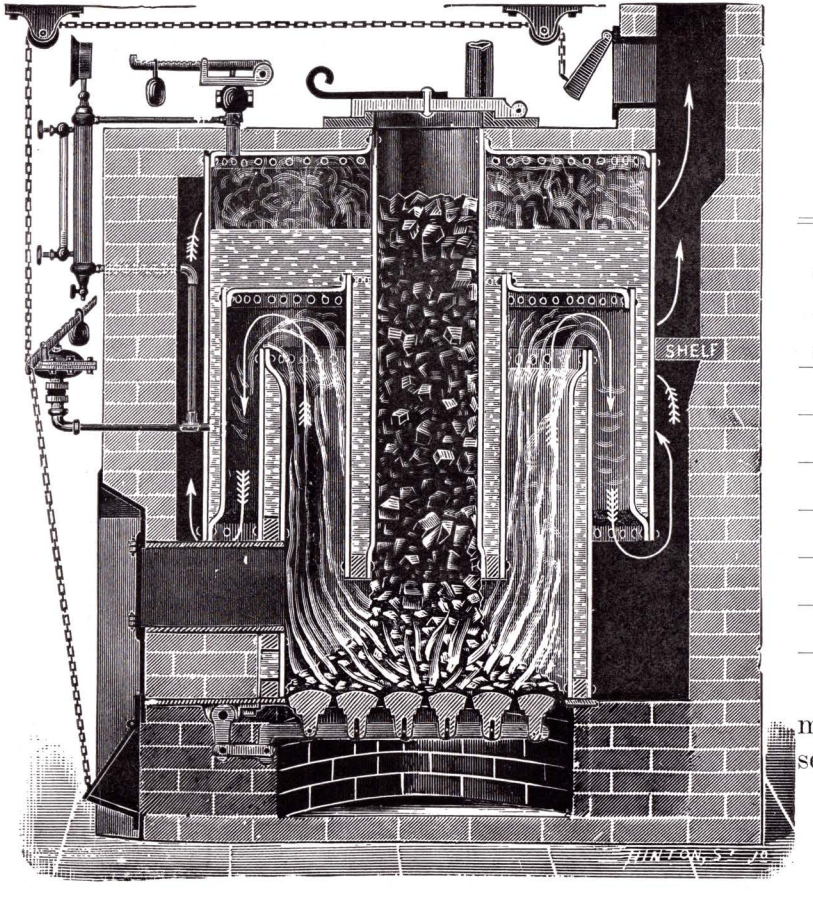
Herbert Baseburning Magazine Boiler

THIS cut shows a sectional view of setting. In bricking, after half the height of the upper shell is reached, place shelf by drawing in one course of brick, as shown in cut, solid to boiler one-half way round from side where flue will be taken out and where connections will be made with chimney. Pains should be taken to have full opening, as shown in cut.

AA is a three inch space at front of boiler which should be increased to a four inch space as fast as circle of boiler will allow. *B* is a four inch space; *C* is a six inch space between shelf; *E* is neck to flue and should be one-quarter greater in area than area to flue.

Make a flaring slope, leaving no sharp corners, from the four inch space to the six inch space above shelf.





Herbert Baseburning Magazine Boiler

Descriptive Price List

Number of Boiler	Diameter of Shell—inches	Height of Boiler—inches	Diameter Fire-pot—inches	Depth of Ashpit—inches	Heating Surface—feet	Radiation Steam Will Supply—sq. ft.	Shipping Weight —pounds	Total Height of Brick Work	Number of Brick Required	Size of Flue	Price f. o. b. Cars Chicago
1	34	50	20	14	90	400	1400	65	1200	9x12	$200
2	38	50	24	14	106	700	1700	65	1500	9x12	250
3	44	50	30	14	145	1000	2300	65	1800	9x12	350
4	52	60	36	17	175	1200	2800	78	2000	12x16	450
5	58	65	44	17	230	1800	3800	78	2500	12x16	500
6	62	65	48	17	260	2500	4000	78	3000	12x16	550

Price includes all necessary castings to set same in masonry, with trimmings and fire tools; blue print of setting and template accompanies each shipment.

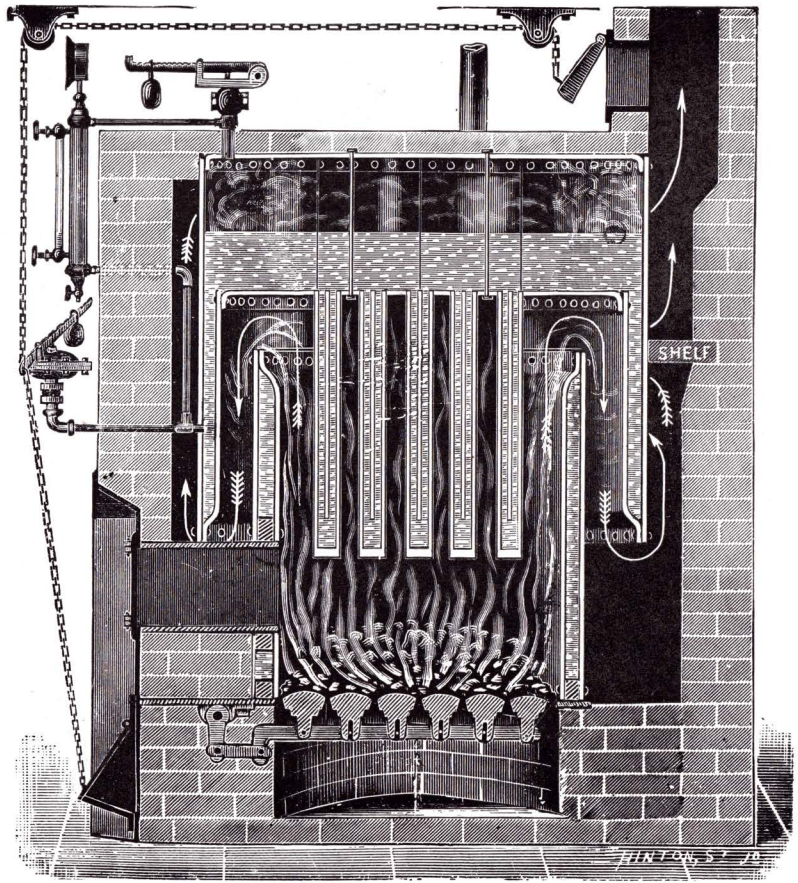
Herbert Drop Tube Boiler
Double Shell

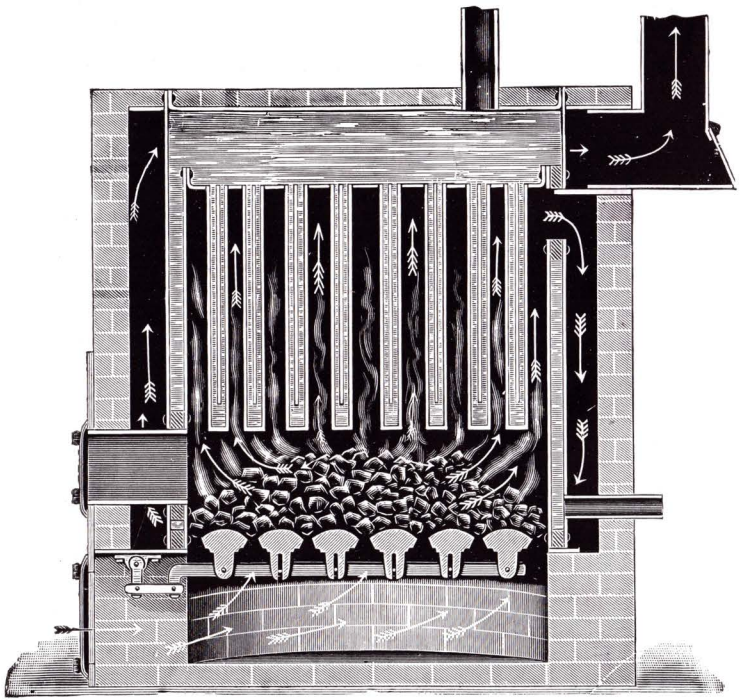
Descriptive Price List

Number of Boiler	Diameter of Shell—inches	Height of Boiler—inches	Diameter Fire-pot—inches	Depth of Ashpit—inches	Heating Surface—feet	Radiation Steam Will Supply—sq. ft.	Shipping Weight —pounds	Total Height of Brick Work	Number of Brick Required	Size of Flue	Price f. o. b. Cars Chicago
1	34	50	20	14	100	500	1400	65	1200	9x12	$200
2	38	50	24	14	130	700	1700	65	1500	9x12	250
3	44	52	30	14	200	1000	2300	65	1800	9x12	350
4	52	60	36	17	250	1500	2800	78	2000	12x16	450
5	58	65	44	17	310	2500	3800	78	2500	12x16	500
6	62	65	48	17	330	3000	5000	78	3000	12x16	550

Price includes all necessary castings to set same in masonry, with trimmings and fire tools; blue print of setting and template accompanies each shipment.

Larger sizes up to 5,000 square feet capacity built to order





Herbert Drop Tube Single Shell Boiler for Hot Water

Descriptive Price List

Number of Boiler	Outside Diameter of Shell—inches	Diameter Fire-pot—inches	Heignt of Boiler—inches	Deptn of Ashpit—inches	Heating Surface —square feet	Radiating Surface Hot Water—sq. ft.	Shipping Weight —pounds	Price f. o. b. Cars Chicago
22	28	24	62	13	75	800	1400	$165.00
23	34	30	62	13	110	1000	1650	215.00
24	40	36	62	13	175	1800	2000	280.00
25	48	44	62	13	225	2500	2500	380.00
26	52	48	62	13	250	3000	3000	415.00

Note the proportion of water surface directly over the intense heat of fire—every inch of tubes and shell is heating surface. It is self-cleaning.

This boiler shipped in one piece, is readily handled and set in position, and, without doubt, the cheapest good boiler you can buy. It is the quickest circulator on the market.

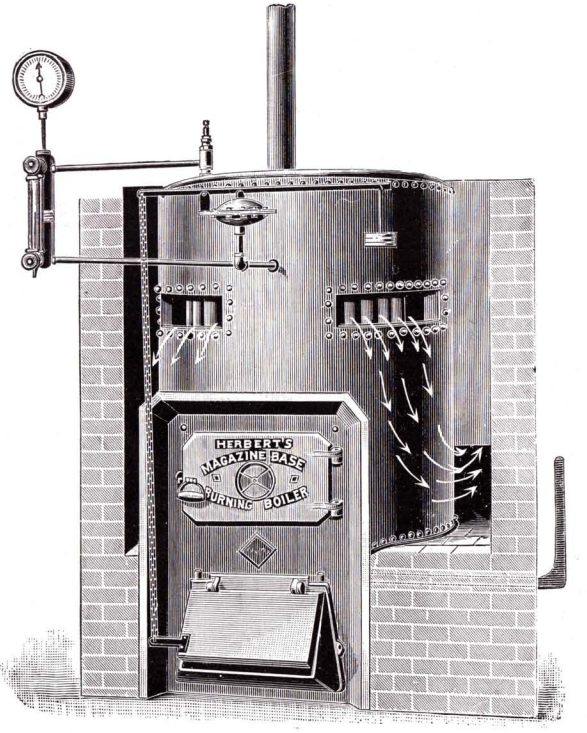
Herbert Drop Tube Single Shell Boiler for Steam

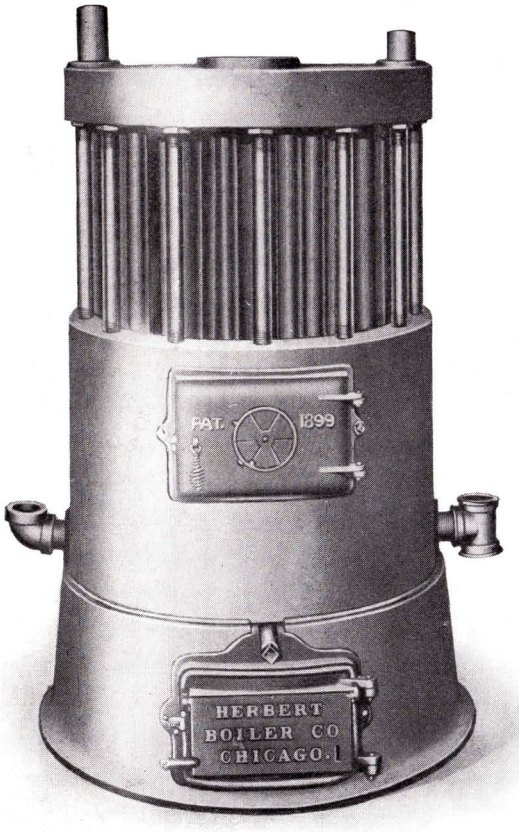
Descriptive Price List

Number of Boiler	Outside Diameter of Shell—inches	Diameter Fire-pot—inches	Height of Boiler—inches	Depth of Ashpit—inches	Heating Surface—square feet	Radiation Will Carry Steam—square feet	Shipping Weight—pounds	Price f. o. b. Cars Chicago
22	28	24	62	13	75	450	1400	$175.00
23	34	30	62	13	110	700	1650	225.00
24	40	36	62	13	175	1200	2000	300.00
25	48	44	62	13	225	1500	2500	400.00
26	52	48	62	13	250	1800	3000	450.00

Arrows show the distribution of heat outside the shell—after passing through the eye-holes it is carried down under partition; then over the shell in rear to smoke opening in chimney.

The internal construction of this boiler is shown on page 32. Drop tubes suspended over the fire; cannot fill with sediment nor rot out; has a greater heating surface than any other built.





Herbert Junior Boilers

ON account of the demand for a portable boiler having the exclusive features which have made our steel drop tube boilers the most economical and efficient on the American market, we have introduced the Junior line. We know they will supply the wants of the smaller class of buildings, and in price and efficiency have no equal.

This sectional view:—the extensive water surface exposed directly to the fire; each tube filled with water, the flame licking its way in and out around the entire surface; positively the quickest heating, most effective circulation known to modern apparatus. You must see a fire in it to appreciate its wonderful efficiency. Will heat more rapidly than any other, without exception.

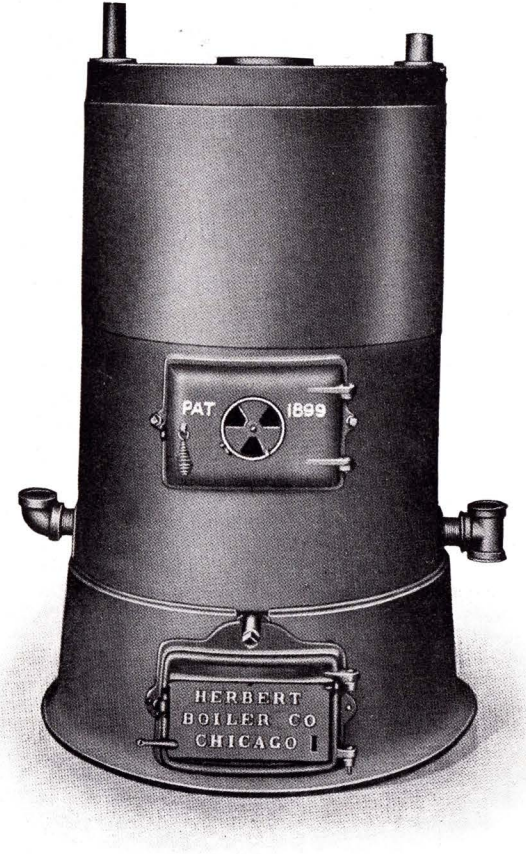
Built in the factory, not on the job, which means labor saved and a guaranteed tight boiler. Cheaper than a sectional and the rating is reliable.

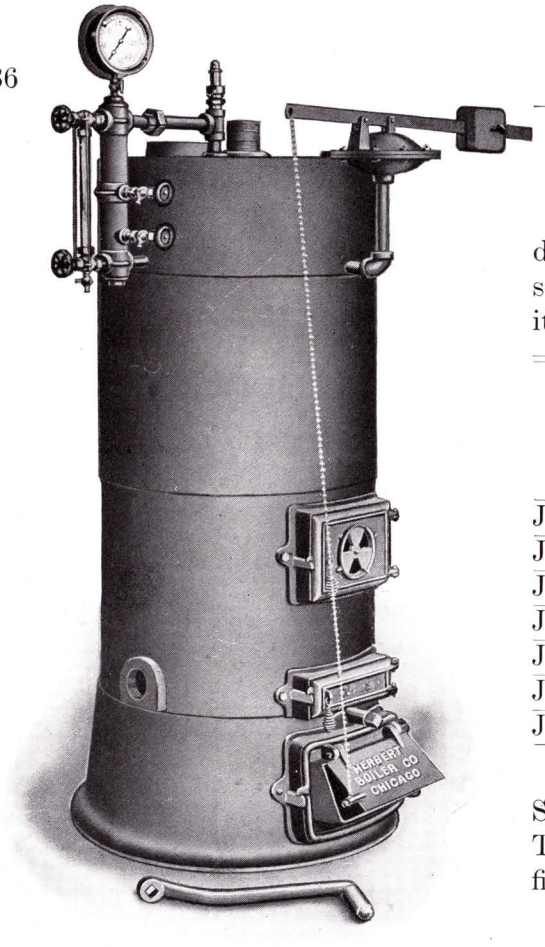
Herbert Junior Water Boiler

For hot-water heating all small buildings you cannot obtain a better boiler. Has deep firepot—will burn any grade of coal—fire surface is all direct.

Number	Diameter Outside—inches	Total Height—inches	Diameter Grate—inches	Size of Flow—inches	Size of Return—inches	Direct Radiation—square feet	Shipping Weight—pounds	Price
J 7	20	48	16	2–1½	2–1½	300	700	$ 80.00
J 8	20	54	16	2–1½	2–1½	400	800	100.00
J 9	24	48	20	2–2	2–2	500	900	120.00
J 10	24	54	20	2–2	2–2	600	1000	150.00
J 11	30	48	24	2–2½	2–2½	700	1200	170.00
J 12	30	54	24	2–2½	2–2½	850	1300	200.00
J 13	36	60	30	2–3	2–3	1200	1600	260.00

Shipped in one piece above the base. Easy to handle and set in place. Considering the labor saved, is cheaper than a sectional.





Herbert Junior Steam Boiler

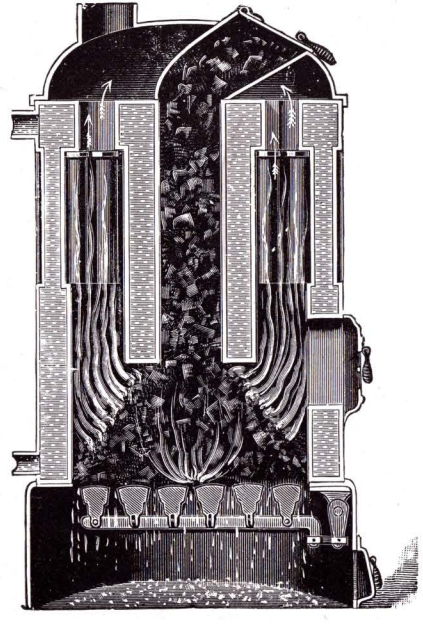
A cast iron boiler built in the factory and not on the job—has drop tubes suspended over the fire—no soot holding crevices—self cleaning— greatest boiler for the money you can obtain. Use it on your small heating jobs; it will make you friends.

Number	Diameter Outside Shell —inches	Diameter Fire-pot—inches	Total Height —inches	Size Supply —inches	Size Return —inches	Total Radiation Steam —square feet	Shipping Weight —pounds	Price
J 7	20	16	54	2	1½	200	725	$ 80.00
J 8	20	16	60	2	1½	250	800	100.00
J 9	24	20	54	2	1½	300	1000	120.00
J 10	24	20	60	2½	1½	380	1100	150.00
J 11	30	24	54	2½	1½	440	1300	175.00
J 12	30	24	64	2½	1½	500	1400	200.00
J 13	36	30	64	3	2	800	1700	250.00

The above prices include trimmings as shown, consisting of Steam Gauge, Water Gauges complete with glass and guards, two Tricocks, Safety Valve, Water Column, Damper Regulator, and firing tools, consisting of Poker and Hoe.

Herbert Junior Magazine Heater

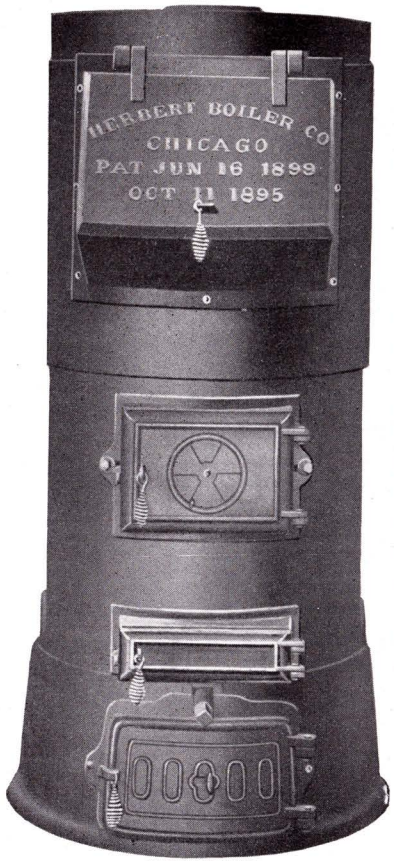
The only water jacketed magazine feed hot water heater. Magazine cannot burn out; no explosion of gases from over-heated magazine; the coal is burned on the grate and not in the magazine. Can be used surface feed, if desired.



Descriptive Price List

Number	Outside Diameter—inches	Total Height—inches	Diameter Grates—inches	Size Flow and Return—inches	Heating Capacity—gallons per hour	Shipping Weight—pounds	Price
12	17	38	13	2–1¼	150	500	$ 62.00
13	17	42	13	2–1¼	250	600	72.00
14	20	48	16	2–1½	400	700	94.00
15	24	48	20	2–2	650	900	140.00
16	24	60	20	2–2	900	1000	180.00
17	30	48	24	2–2½	1000	1200	200.00
18	30	60	24	2–2½	1200	1300	240.00

For Flats, Hotels, Residences, Laundries, Conservatories, Greenhouses, Baptisteries, Bath Houses, etc. The best water heater built.

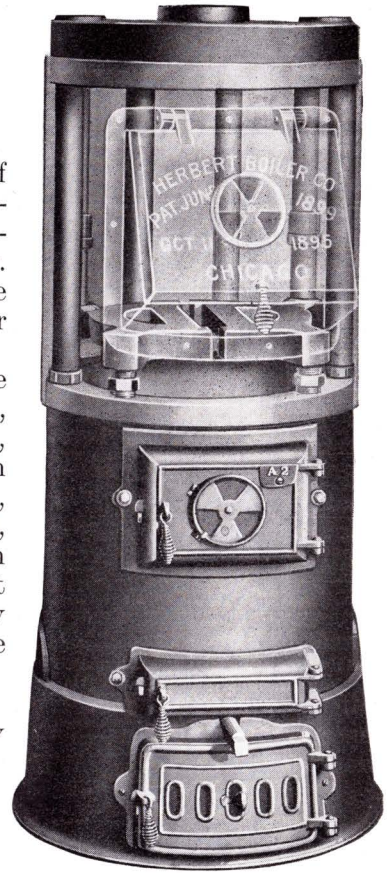


Herbert Garbage Burning Water Heater

TO dispose of garbage and rubbish accumulations of apartments, hospital buildings, schools, etc., in a sanitary manner had remained a problem until the introduction of the Herbert Garbage Burning Water Heater. We have proved the economical solution by burning the garbage and utilizing the resultant fuel to heat water for domestic purposes.

It is the only durable garbage burner built. As will be seen by illustrations there are two grates; the lower for coal, the upper for garbage. The grate is of rocking pattern, strongly constructed, easily interchangeable and free in movement. The garbage grate, cast in two parts, is hollow, and in practical use is filled with water. A fire of wood, coal or coke is built on lower grate and garbage thrown on grate above. Our process is to dry on upper grate all wet substance which takes fire and is consumed—consequently we have fire above and below water grate, which keeps the water circulating at a high speed and temperature.

Front View



X- Ray View

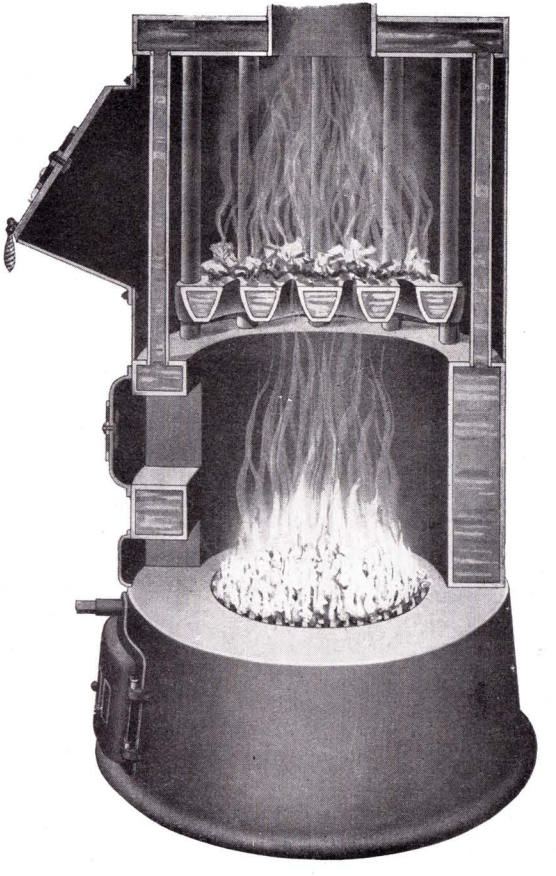
Herbert Garbage Burning Water Heater

As a water heater unequaled in the American market. It consumes all the garbage, emitting neither smell nor smoke.

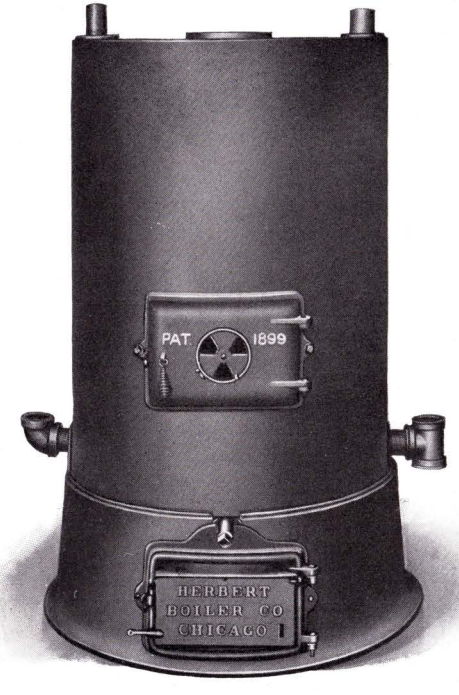
Size and List Prices Portable Heater

Number	**Heating Capacity gals. per hr.**	Number of Flats Supplied	Size Flow and Return—inches	Outside Diameter—inches	Diameter Coal Grate—inches	Diameter Garbage Grate—inches	Total Height—inches	Diameter Smoke Outlet—inches	Floor Space—inches	Shipping Weight—lbs.	**List Price, f. o. b. Chicago**
A1	**150**	1 to 3	1¼ in.	17	13	14	48	6	22	525	**$ 75**
A2	**250**	3 to 6	1½ in.	20	16	17	54	6	24	625	**100**
A3	**500**	6 to 12	1½ in.	24	20	21	54	8	30	800	**150**
A4	**800**	12 to 18	2 in.	30	24	26	54	8	36	1250	**200**
A5	**1200**	18 to 24	3 in.	36	30	32	60	10	42	1600	**280**
A6*	**1600**	24 to 30	3 in.	40	36	34	60	12	46	2100	**400**
A7*	**2000**	30 to 50	3 in.	48	44	43	60	12	54	2800	**500**
A8*	**2500**	50 to 75	3 in.	52	48	46	60	12	58	3000	**600**

* Sizes Nos. A6, A7, A8 are constructed of iron plate—having same style garbage grate, base and coal grates—not regularly carried in stock. Special sizes not listed built on specification.



Side Sectional View



Herbert Junior Solid Heater

(For Tank Heating)

A Surface Feed Heater for hard or soft coal—a rapid heater, very economical in fuel at a price to equal any heater on the market of the same guaranteed capacity.

Descriptive Price List

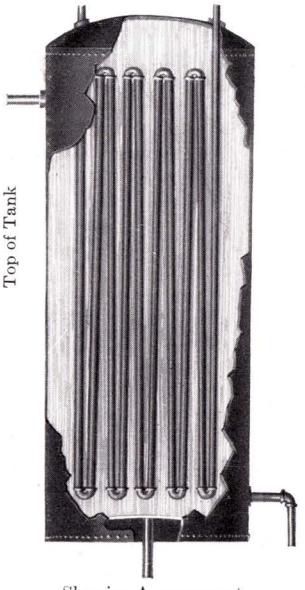
Number	Outside Diameter—inches	Total Height—inches	Diameter Grates—inches	Size Flow and Return—inches	Heating Capacity—gallons per hour	Shipping Weight—pounds	Price
0	15	27	10	1	80	325	$ 35.00
19	17	28	13	1¼	100	375	40.00
20	17	34	13	1¼	150	475	55.00
21	17	40	13	1¼	200	575	65.00
22	20	40	16	1½	300	675	75.00
23	20	46	16	1½	400	750	85.00
24	24	42	20	2	500	850	100.00
25	24	48	20	2	600	1000	120.00
26	30	48	24	2½	1000	1300	195.00

Price List of Tanks, Vertical and Horizontal

Nominal Capacity—gallons	Diameter—inches	Length—feet	Approximate Weight—pounds	Size Openings—inches	Price Tanks: Plain	Price Tanks: Galvanized	Regular Coils Built in Tank: Size Coil in Horizontal Tank—inches	Price Coils: Plain	Price Coils: Galvanized	Price Coils: Brass or Copper
66	20	4	250	1½	$ 43.00	$ 57.00	4 pipes 1 in.	$12.00	$15.00	
85	20	5	290	1½	45.00	61.00	4 " 1 "	12.00	15.00	
100	24	4	300	1½	47.00	64.00	4 " 1¼ "	14.00	17.00	
120	24	5	350	1½	50.00	69.00	4 " 1¼ "	14.00	17.00	
140	24	6	400	1½	52.00	74.00	4 " 1¼ "	16.00	19.00	
150	30	4	420	2	55.00	79.00	4 " 1¼ "	14.00	17.00	
180	30	5	480	2	60.00	90.00	4 " 1¼ "	14.00	17.00	
220	30	6	540	2	64.00	97.00	4 " 1¼ "	16.00	19.00	
250	30	7	600	2	70.00	106.00	4 " 1¼ "	18.00	21.00	
295	30	8	660	2	77.00	117.00	4 " 1¼ "	20.00	23.00	
315	36	6	740	2	82.00	126.00	4 " 1½ "	20.00	23.00	
365	36	7	820	2	90.00	139.00	4 " 1½ "	22.00	25.00	
420	36	8	900	2	96.00	150.00	4 " 1½ "	24.00	28.00	
525	36	10	1060	2	106.00	170.00	4 " 1½ "	28.00	32.00	
430	42	6	890	2	102.00	.....	4 " 1½ "	20.00	23.00	
500	42	7	1000	2	110.00	.....	4 " 1½ "	22.00	25.00	
575	42	8	1080	2	116.00	.....	4 " 1½ "	24.00	28.00	
720	42	10	1260	2	128.00	.....	4 " 1½ "	28.00	32.00	
865	42	12	1450	2	140.00	.....	4 " 1½ "	32.00	36.00	
1000	42	14	1650	2	156.00	.....	4 " 1½ "	36.00	40.00	

Prices on application

Flanged openings add to list for each opening: 2-inch or 2½-inch, $5.00: 3-inch or 3½-inch, $6.00; 4-inch, $7.00. Manhole in head, $15.00; in shell, $25.00. Handhole in head or shell, $5.00.

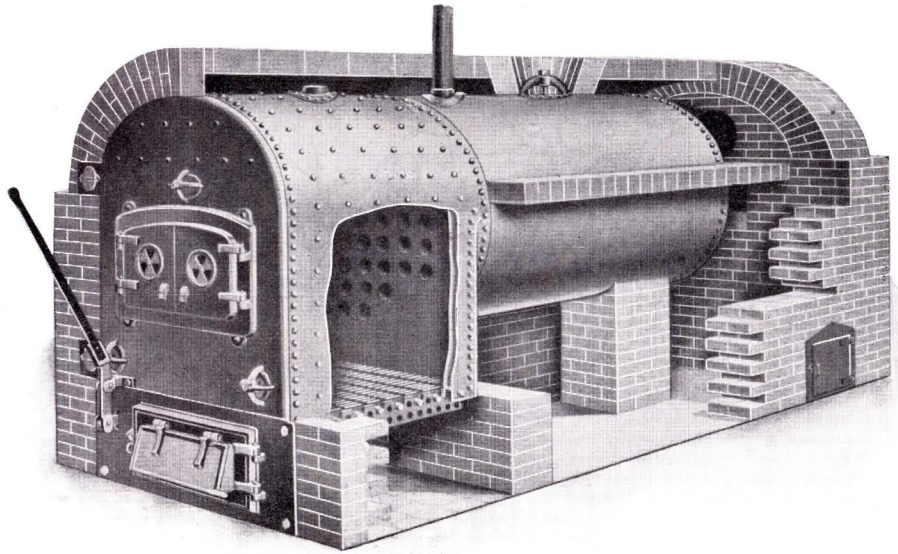


Showing Arrangement of Steam Coil

Heavy Cast Iron Stands for Vertical Tanks

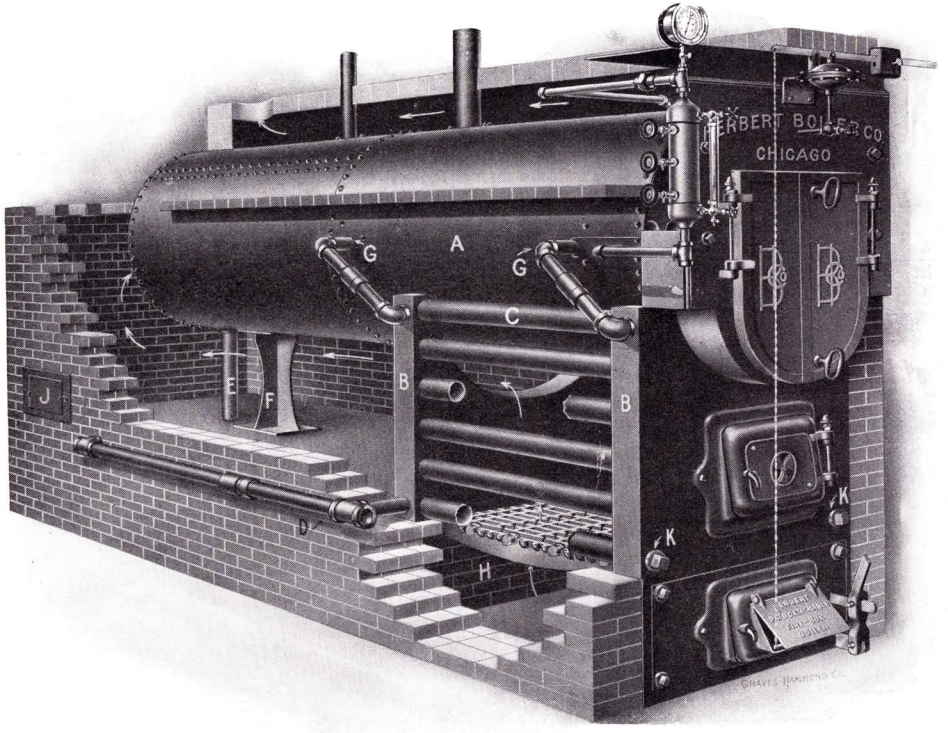
Diam. of Tank	Price Stand
20	$ 8.00
24	10.00
30	15.00
36	17.00
42	20.00

The Standard Firebox Boiler



We do not manufacture this type of boiler. It is illustrated so that by comparison with the Detachable Firebox Boiler you will recognize the improved construction and the greater efficiency to be obtained in the operation of the latter.

Herbert Patent Detachable Firebox Boiler—"B Series"



You can readily see the marked improvement over the boiler shown on previous page. Note our claims and guarantee—then follow your own judgment.

List of Standard Firebox Boilers

For Brick Setting. Without Domes. Manholes and Double Fire Doors in All Boilers Over 30 Inches Diameter.

Number	Diameter Shell—inches	Length over all—feet	Size of Grate —inches	Number of Tubes	Size of Tubes —inches	Fire Doors, single—inches	Fire Doors, double—inches	Steam Tappings, steam —inches	Steam Tappings, return —inches	Water Tappings—inches	Size of Smoke Pipe—inches	Approx. Shipping Wt.—lbs.	Radiation —Steam	Radiation —Water	Thickness of Shell—inches	Thickness of Firebox and Heads—inches	Price of Steam Boiler and Castings	Price of Steam Trimmings	Price of Water Boiler and Castings
0	24	7½	18x26	18	2½	12x14	.....	3	2½	2-4	12	2150	700	1000	¼	5/16	$ 270.00	$18.00	$ 280.00
1	30	6½	24x26	20	3	12x18	.....	3	2½	2-4	16	2450	900	1300	¼	5/16	285.00	18.00	295.00
2	30	7½	24x30	20	3	12x18	.....	3	2½	2-4	16	2750	1000	1600	¼	5/16	300.00	18.00	310.00
3	30	8½	24x38	20	3	12x18	.....	4	3	2-4	16	3150	1200	1900	¼	5/16	320.00	19.00	330.00
4	36	7½	30x32	29	3	.....	16x22	4	3	2-5	18	3450	1400	2200	¼	5/16	375.00	19.00	390.00
5	36	9	30x38	29	3	.....	16x22	4	3	2-5	18	3850	1700	2700	¼	5/16	400.00	19.00	415.00
6	36	10½	30x44	29	3	.....	16x22	4	3	2-5	18	4500	2100	3400	¼	5/16	435.00	19.00	450.00
7	42	8½	36x38	38	3	.....	16x24	6	4	2-5	20	4500	2200	3500	¼	5/16	460.00	23.00	475.00
8	42	10	36x44	38	3	.....	16x24	6	4	2-6	20	5000	2500	4000	¼	5/16	510.00	23.00	525.00
9	42	11½	36x50	38	3	.....	16x24	6	4	2-6	20	5650	2900	4600	¼	5/16	560.00	23.00	575.00
10	48	10½	42x44	48	3	.....	18x30	6	4	2-6	22	6650	3200	5100	5/16	3/8	630.00	23.00	645.00
11	48	12	42x50	48	3	.....	18x30	6	4	2-6	22	7350	3800	6100	5/16	3/8	680.00	23.00	695.00
12	48	13½	42x56	48	3	.....	18x30	6	4	2-7	22	8000	4400	7000	5/16	3/8	735.00	28.00	755.00
13	54	14	48x56	34	4	.....	18x30	7	5	2-7	24	9100	4900	7800	5/16	3/8	860.00	28.00	880.00
14	54	16½	48x62	34	4	.....	18x30	7	5	2-7	24	10250	5800	9300	5/16	3/8	935.00	28.00	955.00
15	60	15½	54x62	54	4	18x24	.....	7	5	2-7	30	14000	7200	11500	5/16	7/16	1200.00	40.00	1225.00
16	60	18	54x68	54	4	18x24	.....	7	5	2-8	30	15250	8500	13600	5/16	7/16	1310.00	40.00	1335.00
17	66	16	60x62	69	4	18x24	.....	8	6	2-8	34	16800	9300	14800	3/8	7/16	1500.00	40.00	1530.00
18	66	18	60x68	69	4	18x24	.....	8	6	2-10	34	18400	10500	16800	3/8	7/16	1600.00	40.00	1630.00
19	72	16	66x68	90	4	18x24	.....	8	6	2-10	40	20000	11200	17900	3/8	7/16	1800.00	44.00	1840.00
20	72	18	66x74	90	4	18x24	.....	8	6	2-10	40	22000	12800	20500	3/8	7/16	2000.00	44.00	2040.00

Trimmings as listed include: One Steam Gauge, one Water Column with three Gauge Cocks and Water Gauge, one Pop Safety Valve, one Automatic Draft Regulator with Lever and Weights.

One Iron Hoe and Poker furnished free of charge with each boiler.

Castings furnished consist of Fire Door and frame, Ashpit Front, Large Soot Door, four Small Doors and "Herbert" Shaking Grates.

Boilers No. 15 and larger have two Single Fire Doors.

A Few Testimonials

HAMLER BOILER & TANK CO.
39th and Halsted Streets. Chicago, March 3rd, 1909.

Gentlemen:

In answer to your inquiry as to how I am satisfied with the Boilers which you installed in my residence at 55th and Carpenter Streets, and also the two Detachable Firebox Boilers which you installed in my flat building at 55th and Center Avenue, also the Firebox Boiler installed at my flat building at 4831 Calumet Avenue, I would say that as a Boiler manufacturer of long standing, I consider them the best Boilers I have ever seen for heating plants, as you combine the two best features of the Tubular and Firebox Boilers.

They are easily kept clean and are very rapid and economical steamers, and I can recommend them to any one, and have recommended them to a great many of my friends who are contemplating the purchase of Boilers for heating purposes. Yours truly,

P. J. HAMLER, President.

Office of
WM. H. FAHRNEY
118 S. Hoyne Ave. Chicago, June 18th, 1903.

Gentlemen:

The smoke-consuming boiler that you placed in our building at 3312-14 West Madison Street four years ago has proven to be exactly as you represented it to be, viz.: a fuel saver, a quick steamer, and a perfect smoke consumer. Yours truly,

W. H. FAHRNEY.

1508 BORLAND BUILDING
La Salle and Monroe Sts. Chicago, February 24th, 1909.

Gentlemen:

We have (2) Herbert Smokeless Boilers in constant use in our building, N. W. Corner of 41st and Indiana Avenue, since 1893. We replaced a firebox boiler with one of Herbert's Detachable Firebox Boilers in building located at 5339 Wentworth Avenue, in 1906, both of which have given us universal satisfaction both in economy of fuel and cost for repairs.

Yours very truly,
HENRY A. BLAIR.

GEORGE W. SPOFFORD
Real Estate Chicago, July 20th, 1900.

Gentlemen:

We have used two of your boilers at the S. E. corner of Harrison and Halsted Streets, for the past five years. In relation to the results obtained by use of same they have been entirely satisfactory Our repairs have been none. So far as consumption of fuel is concerned they have been economical and saving. From experiences and careful watching of their use I cheerfully recommend them to all persons desiring good boilers.

P. S.—1912, boilers are still in service. GEO. W. SPOFFORD.

SCHAMPEL & BALDWIN
173–175 W. Washington St. Chicago, May 10th, 1912.

Gentlemen:

We have used in the last two years, in Chicago, a number of all types of Herbert Boilers, both for steam and water, with satisfactory results. Yours respectfully,
SCHAMPEL & BALDWIN,
By G. F. Schampel.

J. W. CASEY
74 W. Washington St. Chicago, April 25, 1912.

Gentlemen:

Concerning the Detachable Firebox Boiler purchased of you last fall for the Roxbury Building, corner of Sangamon and Van Buren streets, containing eighty-four apartments and six stores, I have to advise that it has given splendid satisfaction. Although we had an extremely severe winter, it heated the building perfectly and with a considerable saving in fuel over the previous year.

If I were to install a new boiler, I would certainly give the "Herbert" the preference over any other make I know. Very truly yours,

J. W. CASEY.

ST. ELIZABETH'S RECTORY,
4049 Wabash Avenue. Chicago, March 1, 1913.

Mr. M. E. HERBERT,

Dear Sir:

You will be pleased to know that the Boilers installed by you, both in the School Building and the new Assembly Hall have given entire satisfaction. With the practical knowledge I now have, were I to install a Boiler in any building controlled by me, I would without the slightest hesitation adopt the one manufactured by the M. E. Herbert Boiler Company. Very respectfully yours,

D. J. RIORDAN.

THOS. E. HOYE HEATING CO.
509 East Water St. Milwaukee, Wis., April 27, 1912.

Gentlemen:

Please enter our order for two No. 12 (65″ x 16′) Class A Detachable Steel Firebox Boilers to be delivered not later than June 1st. They are for St. Joseph's Orphanage, this city, replacing boilers of other make in use less than five years.

We consider the Detachable Firebox Boiler a very desirable type, or combination, that eliminates defects in the tubular and standard firebox make.

We have placed a large number of them in this city and vicinity, in every case the results secured were very gratifying, and has been of much advantage to us in securing work.

Hoping you will continue the success that the merits of your goods warrant,

Yours very truly,
THOS. E. HOYE HEATING CO.,
By Thos. E. Hoye.

Office of
JOHN E. DOOLY
Dooly Building. Salt Lake City, U. S. A., November 16, 1908.

Gentlemen:

The desire of ignorant people for cheapness causes them all to buy a boiler that requires no bricksetting, forgetting that they pay for the coal that produces the heat that radiates from every self-contained and unenclosed boiler. The boiler is a great success; in mild weather it does not take more than two scuttles of coal per day to heat a house of eight large rooms and attic. With the Herbert Magazine Boiler, once it is set any man can run it, no matter how stupid he is. You certainly could monopolize the trade by advertising it properly. Very truly yours,

J. E. DOOLY.

THE RIVERSIDE SANITARIUM
Cor. Keefe and Prospect Ave. Milwaukee, Wis., February 7, 1906.

Dear Sirs:

In reply to your inquiry concerning the adequacy of the Herbert Detachable Firebox Boiler, placed in this institution last fall, we take pleasure in stating we have had no trouble whatever in securing a uniform and abundant supply of heat, in all kinds of weather, and at an economy of fuel bill which has exceeded your claims. Recalling the struggle you had at the time to convince us of the superiority of your boiler over the cast iron type as a fuel saver, and convinced now of the truth of your position, we take pleasure in adding our testimonial, and wish you all success.

Yours truly,

THE RIVERSIDE SANITARIUM,
F. G. Studley, M. D., Pres.

ST. RITA'S COLLEGE
63rd Street and Oakley Avenue. Chicago, March 5, 1913.

Dear Sir:

I have in use four of the Herbert Smokeless Boilers, one large and three small ones, all of which are economical and satisfactory. I do not hesitate to recommend the Herbert Boiler, because if fired as directed it is the simplest and best Boiler in the Chicago market to-day. It is simply constructed and has no mechanism about it to wear out, to cause annoyance or expense.

Very Sincerely,

J. F. GREEN, O. S. J., Pres.

CHANNON & DUFVA
Davis Block
Rock Island, Ill., May 1, 1912.

Gentlemen:

We have in use several of your Garbage Burners, all of them giving satisfactory service.

Yours truly,
CHANNON & DUFVA.

WALTER S. FOGG & Co.
Real Estate, Renting, Loans and Insurance
1345 E. 55th St.
Chicago, February 23, 1909.

Gentlemen:

Referring to the two boilers installed by you at No. 537 E. 55th Street in September, 1908, will say our entire deal with your Mr. M. E. Herbert was satisfactory. He did exactly as he agreed. We are well pleased thus far with the service the boilers are giving us.

Very truly yours, WALTER S. FOGG & Co.

ILLINOIS GAS & ELECTRIC FIXTURE Co.
842 W. North Ave.
Chicago, March 4, 1909.

Gentlemen:

Replying to your inquiry with reference to the two Herbert Detachable Firebox Boilers which you installed for me, will say that I have had entire satisfaction with them and can recommend the boiler highly.

Yours truly,
H. FREELS.

THE ROYER BUILDING
3824–26 Rhodes Ave. Chicago, December 24, 1912.

Gentlemen:

For efficiency and economy I am pleased to state the Detachable Firebox Boiler you placed in my building over three years ago beats anything I ever tried, and I have used several of the well advertised kinds for heating purposes. The use of this boiler has largely solved the coal question with me. It will burn anything with perfect satisfaction.

Hoping you merited success, I am, Yours respectfully,

J. C. R. BOYER.

WILLIAM P. OGELSBY
Plumbing Construction
Main Office: 226 Land Title Building
Shops, 1336–42 Carpenter St. Philadelphia, October 8, 1906.

Gentlemen:

In answer to your letter of October 5th, in regard to the No. 1 Garbage Burning Water Heater which I purchased from you for the Phipps Institute for Consumptives in this city, would say that my experience has been that one hears more complaints than praise in business, therefore, since I have heard nothing in regard to the working of this heater, which has been installed now over a year, I take it that it is most satisfactory.

If I can get any further recommendation from Dr. Flick I would be glad to do so.

Very truly yours,

WILLIAM P. OGELSBY.

HAYES BROTHERS
Contractors of Plumbing and Heating
Gentlemen:

Indianapolis, March 12, 1909.

In reply to yours of the 5th inst., will say we installed one of your Smokeless Boilers in this city, in Public School No. 58. We have no had trouble with the boiler and the same has proven as near smokeless as a boiler can be made.

Very respectfully,
HAYES BROTHERS,
Per J. G. HAYES.

DR. JOHN GUERIN
Chicago

February 23, 1909.

I have used (2) Herbert Boilers at 61st and Madison Avenue, for the past ten years. I replaced a firebox boiler at 2916 State Street in 1906 with one of his Detachable Firebox Boilers, and also replaced (2) other boilers in my Hotel building, N. W. corner 31st and State Streets, last fall, and from my experience with the different makes of boilers I am very positive that Herbert has the best and most economical boilers in the Chicago market.

JOHN GUERIN.

KRIETENSTEIN BROS.
Builders. Chicago, May 4th, 1908.

Gentlemen:

In installing the heating plants for my three six-apartment buildings at 3516 to 3526 Grand Boulevard, I was induced by your sales agent to use your Detachable Firebox Boilers; this circumstance caused me to give these boilers particular attention, and I can now say that they have proved satisfactory, economical, practically smokeless and needing very little care as to cleaning.

Yours truly,

J. C. KRIETENSTEIN.

COLONIAL CHAIR CO.
1746 N. Maplewood Ave. and Bloomingdale Rd. Chicago, August 15th, 1904.

Gentlemen:

The two Garbage Burners and Water Heaters you furnished for my 16-flat apartment building at 1389–91 Humboldt Boulevard, and also the one for my 6-flat building at 1377-79 N. Spaulding Avenue, work admirably, both as to heating water and consuming garbage. The combustion is perfect, having no bad odor of any kind, which is a very important feature in a garbage burner, and I can truly say I am more than pleased with the workings of these heaters.

Yours truly,

O. KRABOL, President.

COLLINS & MORRIS
Chamber of Commerce. Chicago, March 19, 1913.

Gentlemen:

In my experience of many years I have seen nearly every type of heating boiler. The fact that over two hundred Herbert Boilers have been installed in buildings erected for Collins & Morris is sufficient evidence of what I think of the product of the Herbert Boiler Company. I have just recently ordered several of the Detachable Firebox type for my new buildings.

THOS. A. COLLINS.

MURRAY WOLBACH, Real Estate
105 S. Dearborn St. CHICAGO, March 1, 1913.

Gentlemen:

I have used the Herbert Detachable Firebox Boiler in a number of buildings erected for me during the past three years and consider the same superior to any firebox boiler built. It is a great fuel-saver.

MURRAY WOLBACH.

ST. GEORGE'S PARISH
3924 Wentworth Ave. CHICAGO, March 19, 1913.

To Whom it may concern:

The Herbert Detachable Firebox Boiler which has been installed in St. George's School in Fall 1912 for the purpose of heating School and Church has so far given full satisfaction in every respect.

Respectfully,

B. SPRINGMEIER, Pastor.

Following are but a Few of Many Installations of the Herbert Detachable Firebox Boilers in Chicago

Everett Ave., between 53rd and 54th Sts. (9 boilers in T. A. Collins' Bldgs.)
Collins & Morris' Bldg., Northeast Corner Evanston and Wellington Aves.
Collins & Morris' Bldg., Southwest Corner 45th and Grand Blvd.
Collins & Morris' Bldg., Southwest Corner 46th and Michigan Ave.
Collins & Morris' Bldg., Southwest Corner 53rd and Washington Ave.
Collins & Morris' Bldg., 50th and Jefferson Ave.
Collins & Morris' Bldg., 48th and Calumet Ave.
Collins & Morris' Bldg., 45th and Indiana Ave.
Collins & Morris' Bldg., 44th and Indiana Ave.
Collins & Morris' Bldg., Northeast Corner 42nd and Indiana Ave.
Krietenstein Bros., 3616–26 Grand Blvd.
Pomerania Bldg., Northeast Corner 39th and State Sts.
S.E. cor. Irving Pk. Blvd. and Clarendon Ave.
W. H. Bowers & Co., Northeast Corner 35th St. and Indiana Ave.
W. K. Gore, 3716–18 Prairie Ave.
Chas. A. Comiskey — Am. League Ball Park
P. Hamler, Center Ave. and 55th Blvd.
W. H. Bowers & Co., 3547 Grand Blvd.
Fairbanks & Mower, Southeast Corner 43rd St. and Vincennes Ave.
Richard Curran, Southwest Corner 61st St. and Woodlawn Ave.
Daniel Gawne, 1130–4 Bryn Mawr Ave.
Eggert Bros., Northeast Corner 53rd and Halsted
Freels' Bldg., Northwest Corner North Ave. and Francisco St.
James Ralph, 2400 Prairie Ave.
Daniel Duffin, 430 E. 43rd St.
H. Freels, 2649 W. North Ave.
E. Wetzel, 1121 N. Ashland Ave.
Victor Sivore, Southwest Corner 43rd and State
Irwin Bros., 5820 South Park Ave.
3313 W. North Ave.
Dr. Dorn, 1541 E. 63rd St.
J. W. Dowd, 44th St. and Wabash Ave.
Jas. Donohue, 44th St. and Wabash Ave.
Hon. Edw. F. Dunne

R. A. Griefen, Southeast Corner Edgecomb Place and Evanston Aves.
National Tea Co., North and Fairfield Aves.
Taylor and Wood Sts.
Miss Leah White, 5122 Sheridan Road
Dr. J. Guerin, 2916 State St.
M. Johnson, 16 W. Ontario St.
F. A. Menge, 4220 Berkeley Ave.
Blair Estate, 5339 Wentworth Ave.
O. Krabol, Southwest Corner Humboldt Blvd. and Dunning St.
P. A. Dasso, Southwest Corner St. Louis Ave. and Flournoy St.
Mr. Rolandson, 1523–7 N. California Ave.
Wm. Anderson, Palmer Sq. and Sacramento Ave.
R. J. Busch, 4718 St. Lawrence Ave.
2037 Wabansia Ave.
John Cunnea, 6422 Eggleston Ave.
R. Curran, 3850 Vernon Ave.
T. E. Wells & Co., 132 E. 22nd St.
First Eman. Norw.-Dan. Church, Kimball and Wrightwood Aves.
Jas. P. Hunter, Northwest Corner 21st St. and Wabash Ave.
Archer Theatre, 1925 Archer Ave.
Geo. Hinchliff Co., 196 W. 14th St.
Martin Gass, 5517 S. Halsted St.
Otto Miller, 79th and Halsted Sts.
A. H. Peters & Co., Southeast Corner 43d St. and Wabash Ave.
Thos. McNally, 7901 S. Halsted St.
Walter S. Fogg & Co., 1000 E. 55th St.
Heman B. Jackson, 6443–5 Jefferson Ave.
F. W. Martin, 617 W. 40th St.
R. Curran, Southeast Corner 61st St. and Cottage Grove Ave.
Tosetti Brewing Co., Northeast Corner Halsted St. and Addison Ave.
Working Boys' Home, Jackson and Center Ave.
S. Swarzschild, 3515 Rhodes Ave.
A. G. Mahony Bldg., Southeast Corner 55th St. and East End Ave.
Northeast Corner 50th St. and Prairie Ave.
R. J. Busch, Northwest Corner 75th St. and Harvard Ave.
R. J. Busch, 62d St. and South Park Ave.
C. G. Thomas, 824 E. 39th St.
Otto Grabe, 51st and Throop Sts.
2244 Calumet Ave.
M. Walker, Southeast Corner 62d St. and Madison Ave.

M. Walker, Southeast Corner 61st Place and Madison Ave.
Dean Hotel, N.E. cor. Clark and Lake Sts.
24–28 N. Fifth Ave. (Illinois Staatz-Zeitung Bldg.)
233 W. Lake St. (M. L. Barrett Co.)
Southwest Corner 64th St. and Jackson Blvd.
Southwest Corner 52nd St. and Lake Ave.
Northeast Corner 60th and Wabash Ave.
Northeast Corner 55th St. and Woodlawn Ave.
Southeast Corner 68th Pl. and Madison Ave.
Northwest Corner 57th St. and Washington Ave.
Southeast Corner 46th St. and St. Lawrence Ave.
Northwest Corner 44th St. and Michigan Ave. (2)
Southwest Corner 37th St. and Vincennes Ave.
Northwest Corner 59th St. and Princeton Ave. (2, St. Martin's Church)
Northwest Corner 43rd St. and Indiana Ave. (2)
Southeast Corner 53rd St. and Cornell Ave.
Northeast Corner 51st St. and Indiana Ave.
Southeast Corner 41st St. and Prairie Ave. (2)
Northeast Corner 60th St. and Calumet Ave.
Southeast Corner 43rd and State Sts.
Northeast Corner 35th St. and Lawndale Ave.
Northeast Corner 38th St. and Campbell Ave.
Southeast Corner 44th Pl. and Halsted St.
Southwest Corner 65th St. and Ashland Ave.
Southwest Corner 47th and Center Ave.
Northeast Corner 30th and Dearborn Sts.
Southeast Corner 107th St. and Curtis Ave.
Southeast Corner 108th St. and Michigan Ave.
51st and State Sts. (Hoffman Bldg.)
Drexel Ave., between 62nd and 63rd Sts.
62nd St. and Lawndale Ave. (Church)
2917 S. LaSalle St.
217 W. 31st St.
2942 Wabash Ave.
4834 Grand Blvd.
3531–3 Grand Blvd.
4818 Grand Blvd.
5476 Cornell Ave.
4351 Forrestville Ave.
5027 Calumet Ave.
5108–10 Calumet Ave.
6346 Ellis Ave.
6434–36 Jackson Ave.
4729 Woodlawn Ave.
5010 Washington Ave.
5710 Madison Ave.
6456–8 Eggleston Ave.
6049–51 South Park Ave.
5848 South Park Ave.

6510 Monroe Ave.
5719 Indiana Ave.
5232–4 East End Ave.
4700–12 Drexel Blvd. (3)
1344–54 Greenwood Terrace
1530–2 E. 62nd St.
1400 W. 69th St.
307 W. 65th St.
6500 Yale Ave.
6901 Madison Ave.
Southeast Corner 55th and Woodlawn Ave.
Northeast Corner 63rd and Langley Ave.
Northeast Corner Hazel and Windsor Aves.
Northeast Corner Southport and Foster Aves.
Southeast Corner Winona and Southport Aves.
Southwest Corner North and Dearborn Aves.
Pine Grove Ave., North of Graceland Ave. (Wm. Morris Bldg.)
Ridge Park Field House, 96th and Longwood Ave.
5217 Jefferson Ave.
Southwest Corner Sangamon and Van Buren Sts. (2)
Southeast Corner Sangamon and Van Buren Sts. (1)
Northeast Corner 23rd St. and Kedzie Ave.
Southwest Corner 22nd St. and Kedzie Ave.
Southeast Corner Harrison and Peoria Sts. (2)
928 W. Garfield Blvd.
462 Oakwood Blvd.
5842–4 Rosalie Court
621 Woodlawn Park Pl.
336 Woodlawn Park Pl.
9510 Ewing Ave.
Southeast Corner 43rd and State Sts.
3000 Indiana Ave.
3757 Grand Blvd.
812 E. 42nd St.
1612 Cleveland Ave.
6311 N. Clark St.
4422 Racine Ave.
3130 Palmer Square
400 W. Ontario St.
1375 E. 57th St.
1242 N. Clark St.
6445–7 Monroe Ave.
Southwest Corner Hoyne Ave. and Van Buren St.
Southeast Corner Logan and Kedzie Aves.
Southwest Corner Courtland and Nebraska Aves.
Northeast Corner 24th and Troy Sts.
Northwest Corner 12th and Troy Sts.
Southeast Corner 12th St. and Central Park Ave.
Southwest Corner Evergreen and Kedzie Aves.

Northeast Corner Clybourn Ave. & Wabansia
Esmond St. School, Morgan Park.
Southwest Corner California Ave. and Van Buren
Northwest Corner Western Ave. and Congress St.
Southwest Corner Talman and Humboldt Aves.
21st St. and Marshall Ave. (Western Brass Co.)
Taylor and Lincoln Sts. (Holy Trinity Church)
2341 S. Kedzie Ave. (Bohemian Hall)
Trumbull Ave. and Douglas Blvd.
Western and St. Paul Aves., near Bloomingdale Road
North Ave. and 41st Court
54th Ave. and 31st St. (Cicero School)
34th St. and Ridgeland Ave. (Berwyn School)
2745 W. Madison St.
St. George's Church, 39th St. and Wentworth Ave.
Southwest Corner 56th and Ingleside Ave.
Northwest Corner 56th and Ingleside Ave.
5471 Lake Ave.
Southeast Corner 44th St. and Wabash Ave.
West Hammond School, West Hammond, Ill.
Southeast Corner 62nd and Vincennes Ave.
Northwest Corner Chicago Ave. and Rush St.
Southeast Corner 51st St. and Ellis Ave.
1715 S. Ashland Ave.
Southeast Corner Adams and Wabash Ave.
29th St. and Hiawatha Ave. (Hiawatha School)
Shermerville, Ill. (School)
6408 W. Washington Blvd. (Oak Park)
1620 W. 12th St.
1234 W. 12th St.
827 Ashland Blvd.
1700 N. Halsted St.
3313 W. Fullerton Ave.
1918 Humboldt Blvd.
1926–8 Humboldt Blvd.
3833 W. Harrison St.
3400 Renshaw St.
3538 Lexington St.
6051 S. Halsted St.
2117 Fremont St.
4940 Greenwood Ave.
2702 Michigan Ave.
5326 Jefferson Ave.
4143 S. Halsted St.
Katzinger Bldg., 122 N. Sangamon St.
6043–5 Champlain Ave.
Fish Furniture Co., 63rd and Green Sts.
Southeast Corner 61st and Drexel Ave.
Southeast Corner 31st St. and Prairie Ave.
Knickerbocker Ice Co., Crystal Lake, Ill.
613 S. Paulina St.

A Few of the Many Locations in Milwaukee where the Herbert Detachable Firebox Boilers may be Seen in Operation

John Dewerth, 1451 Fond du Lac Ave.
A. Hood, Grand Ave. and 24th St.
Carbolineum Wood Preserving Co., 518 Prairie St.
J. H. Yewdale & Sons, 417 7th St.
Mrs. Drew, Apartment Bldg., Martin and Jefferson
Dr. Gelhaar, 636 12th St.
Olympia Flats, Grand Ave. and 14th St.
Arlington Flats, Cass and Oneida Sts.
Pfeiffer & Smith, 495 Clinton St.
E. Eggert & Son, 742 Winnebago St.
Seaman Apartments, 200 Knapp St.
The Morawetz Co., 319 East Water St.
St. Adelbert's Church, 15th Ave. and Beecher St.
Fifteenth District School.
Stowell Flats, Stowell Ave. and Park Place
Calumet Flats, Wells and 31st Sts.
Nazareth Lutheran Church, Meinecke Ave. and 25th St.
Riverside Sanitarium East Keefe Ave.
Marquette University, Grand Ave. and 12th St.
Auer Apartment Bldg., State and 15th Sts.
Platz Bldg., State and 3rd Sts.
Fizette Hotel, 188 Wisconsin St.
Mechanical Appliance Co., 133 Stewart St.
Hayes Apartment Bldg., Oakland Ave.
Singer Sewing Machine Co., W. Water and Wells Sts.
Westmoreland Apartments, Milwaukee and Martin.
Trinity Church, Prairie and 9th Sts.
Kettler Drug Store, Brady St. and Farwell Ave.
Apple Apartments, 15th St. near State St.
Wellhauer Building, East Water St.
Luick Ice Cream Factory, 188 Ogden Ave.
San Rafel Apartments.
Archbishop Messmer's Residence, 2200 Grand Ave.
Hughes Apartments, 194 11th St.
Hunholz Apartments, 316 19th St.

Hunholz Apartments, 2310 Wells St.
Thwait's Apartments, Grand Ave. and 14th St.
F. Mayer Boot and Shoe Co. Bldg., 288–290 E. Water St.
Branch Second Ward Savings Bank, 12th and Vliet Sts.
Juneau Theatre Bldg., 1st Ave and Mitchell St.
Branch Second Ward Savings Bank, Third and North Ave.
Lutheran Altenheim, Wauwatosa
Martha Washington Home, 54th and Cedar Sts.
Odd Fellows Hall, 548 Potter Ave.
Thirey Piano Co., 424 Jackson St.
Jewish Settlement Home, 9th and Sherman Sts.
Kilbourn Masonic Building, 11th and Cedar Sts.
John Schroeder, 504 Galena St.
Nic Weiand & Son, 2408 Lisbon Ave.
Geo. Seelman & Sons Co., 337–341 7th St.
Wallard Apartments, Farwell Ave. and Kane Pl.
Edw. Kettler, Jr., Brady and Farwell Ave.
Parks Flats, 11th and Wells Sts.
Lake Drive Apartments, 536 Lake Drive
Wallerman Apartments, Folsom Pl. and Bartlett Ave.
Norman Flats, 6th and Grand Ave.
Irvington Court, 533–543 Jefferson St.
Waverly Apartments, 6–8 Waverly Pl.
Light Horse Squadron Armory, East Milwaukee
Ellenton Flats, 2408–2414 Wells St.
Ilsley Apartments, 572 Marshall St.
Hudson Flats, 3204 Grand Ave.
Apartment Building, 22nd and Grand Ave.
Apartment Building, Prospect Ave. and Lafayette Place.
Schiffler Bros. Bldg., 10th Ave and S. Pierce St.
Schmidt Apartments, 18th and Grand Ave.
Hartman Furniture Co., 286 W. Water St.
Auditorium Court, 820 State St.
Knebel Apartments, 27th and Cold Spring Ave.
Jefferson Realty Co. Bldg., 12th and Grand Ave.
Apartment Bldg., 535 Lake Drive.
Store & Garage Bldg., Belleview and Downer Ave.
Emmerich Apartment Bldg., 834 Downer Ave.
Apartment Bldg., Racine St., Corner Lyon St.

Other Locations in Wisconsin

Avery Scale Co., North Milwaukee.
Edgerton High School, Edgerton.
St. John's Institute, St. Francis.
Bostwick Building, Janesville.
Richardson Building, Janesville.
Colvin's Baking Co., Janesville.
Robinson Flats and Garage, Beloit.
High School, Spring Green.
In Marinette, installed by E. H. Norton.
In Fond du Lac, installed by Geo. Georgeson.
In Beaver Dam, installed by Martin & Wigman.
Opera House, Madison.
Geo. G. Sutherland, Janesville.
Eighth Ward School Bldg., Sheboygan.
High School Bldg., Fort Atkinson.
School Building, Blue River.
School Building, Kewaskum.
School Building, Sun Prairie.
High School Bldg., Fond du Lac.
G. B. Lewis Co., Watertown.
Brant Cash Register Co., Watertown.
School Building, Watertown.
School Building, Kiel.
Masonic Building, Beaver Dam.
Connor Lumber Co., Laona.

Locations in Minnesota

Masonic Temple, Winona.
Knights of Columbus Bldg., St. Paul.
Elsinger Hospital, St. Paul.
First National Bank, Mankato.
School, Sauk Rapids.
L. W. Sherlund, Brainerd.
Visitation Academy, St. Paul.
St. Adelberts Church, St. Paul.
Normal School, Mankato.
Church of the Transfiguration, Austin.
Y. M. C. A. Bldg., St. Paul.
Elks Club, St. Cloud.
Mazeppa, Minn.

In Washington

Audobon School	Spokane	Spokane Bakery	Spokane
Parental School	Spokane	Raymond Hotel	Spokane
Geo. Silman	Spokane	P. W. Francher	Spokane
J. D. Finley	Spokane	Manufacturers Furniture & Bed Co.	Spokane
Cohn Bros.	Spokane	C. F. Kay	Spokane
Ideal Restaurant	Spokane	Rev. Father Corbett	Hillyard
J. I. Daniels, (2)	Spokane	Finch Building	Aberdeen
Otto Juckland	Spokane	Fox Heating Co.	Sedro Wooley
Spokane Realty Co.	Spokane	Fox Heating Co.	Anacortes
J. M. Toomey	Portland, Oregon	J. M. Richards	Portland, Oregon
Clackamos County Court House	Oregon City	M. B. Shafer	Portland, Oregon
Bowles Company	Seattle, Wash.	Bowles Company	Seattle, Wash.
Glacier Park Hotel	Glacier Park, Mont.	School Bldg.	Wallace, Ida.